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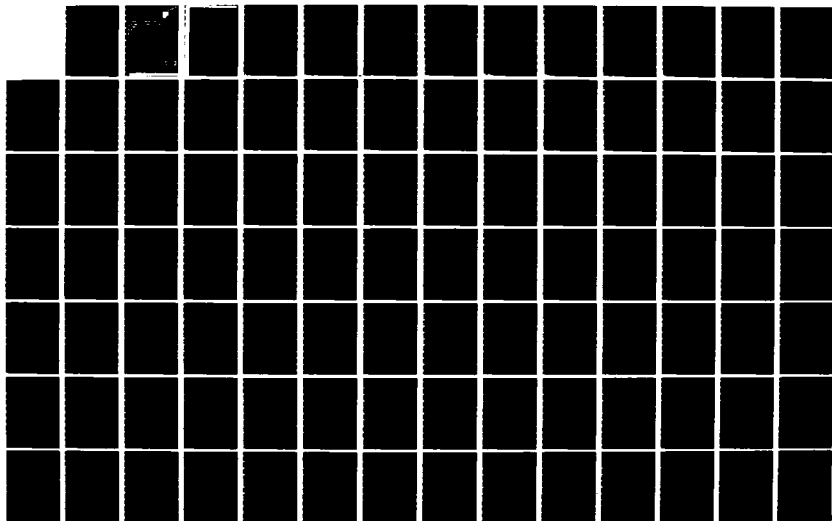
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS) (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

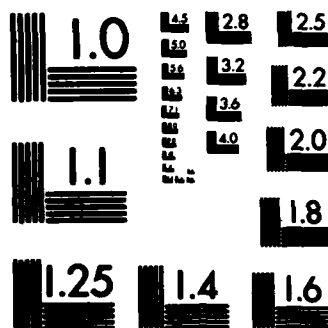
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RADC-TR-83-217, Vol III (of three), Pt 4

Final Technical Report

September 1983



(12)

AD A137 510

**GENERAL ELECTROMAGNETIC MODEL FOR
THE ANALYSIS OF COMPLEX SYSTEMS
(GEMACS) Computer Code Documentation
(Version 3)**

The BDM Corporation

Dr. Diana L. Kadlec and Dr. E. L. Coffey

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**ROME AIR DEVELOPMENT CENTER
Air Force Systems Command
Griffiss Air Force Base, NY 13441**

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RADC-TR-83-217, Volume III, Part 4 (of three) has been reviewed and is approved for publication.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
RADC-TR-83-217, Vol III, Part 4	4137310	
4. TITLE (and Subtitle)		5. TYPE OF REPORT & PERIOD COVERED
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF COMPLEX SYSTEMS (GEMACS)		Final Technical Report
COMPUTER CODE DOCUMENTATION (Version 3)		February 81 - July 83
7. AUTHOR(s)		6. PERFORMING ORG. REPORT NUMBER
Dr. Diana L. Kadlec		BDM/A-83-020-TR
Dr. Edgar J. Coffey		8. CONTRACT OR GRANT NUMBER(s)
		F30602-81-C-0084
9. PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
The BDM Corporation		62702F
1801 Randolph Road, S.E.		23380333
Albuquerque NM 87106		
11. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
Rome Air Development Center (RBCT)		September 1983
Griffiss AFB NY 13441		13. NUMBER OF PAGES
		564
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report)
Same		UNCLASSIFIED
		16a. DECLASSIFICATION/DOWNGRADING SCHEDULE
		N/A
17. DISTRIBUTION STATEMENT (of this Report)		
Approved for public release; distribution unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
Same		
18. SUPPLEMENTARY NOTES		
RADC Project Engineer: Kenneth R. Siarkiewicz (RBCT)		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
Electromagnetic Compatibility		Matrix Equation Solution
Method of Moments (MOM)		MOM/GTD Hybridization
Geometrical Theory of Diffraction (GTD)		EM Radiation and Scattering
Antenna Analysis		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		
GEMACS solves electromagnetic radiation and scattering problems. The Method of Moments (MOM) and Geometrical Theory of Diffraction (GTD) are used. MOM is formalized with the Electric Field Integral Equation (EFIE) for wires and the Magnetic Field Integral Equation (MFIE) for patches. The code employs both full matrix decomposition and Banded Matrix Iteration (BNI) solution techniques. The MOM, GTD and hybrid MOM/GTD techniques in the code are used to solve electrically small object problems, electrically		

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large object problems and combination sized object problems.

Volume I of this report is the User Manual. The code execution requirements, input language and output are discussed.

Volume II is the Engineering Manual. The theory and engineering approximations implemented in the code are discussed. Modeling criterion are given.

Volume III is the Computer Code Documentation Manual. This manual contains extensive software information of the code.

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1. NAME: UNEFLD (MOM)
2. PURPOSE: To calculate the electric field due to the unit currents in the \hat{t}_1 and \hat{t}_2 directions on the source patch.
3. METHOD: The electric field at a segment observation point due to the source patch j is given by

$$\bar{E}(\bar{r}_o) = \frac{-jnA}{4\pi k} \left[\left(\frac{-1 - jkR + k^2 R^2}{R^3} \right) \bar{J}_j + \left(\frac{3 + 3jkR - k^2 R^2}{R^5} \right) \left(\bar{J}_j \cdot \bar{R} \right) \bar{R} \right] e^{-jkR}$$

where $\bar{J}_j = J_{1j} \hat{t}_{1j} + J_{2j} \hat{t}_{2j}$, R is the vector from the source to the observation point, and A is the area of the patch. In this subroutine J_{1j} and J_{2j} are unity.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	The area of the source patch
CONST	$\eta/4\pi k$
EXIT1,EYIT1,EZIT1 EXRT1,EYRT1,EZRT1	Imaginary and real part of the electric field at the observation segment due to a current in the \hat{t}_1 direction on the source patch
EXIT2,EYIT2,EZIT2 EXRT2,EYRT2,EZRT2	Imaginary and real part of the electric field at the observation segment due to a current in the \hat{t}_2 direction on the source patch
R	The distance from the source patch to the observation segment
RJ1	$J_1 \hat{t}_1 \cdot \bar{R}$
RJ2	$J_2 \hat{t}_2 \cdot \bar{R}$
RK	kR

R2	R^2
R2K	$k^2 R^2$
R3	R^3
R5	R^5
TCR,TCI	Real and imaginary parts of $\frac{-nA}{4\pi k} e^{-jkR}$
T1R,T1I	Real and imaginary parts of $(-1 - jkR + R^2 k^2)/R^3$
T2R, T2I	Real and imaginary parts of $(3 + 3jkR - k^2 R^2)/R^5$
T1,T2,T3,T4	Temporary variables used in computing electric field
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XIJ,YIJ,ZIJ	X,Y, and Z components of vector from source patch to observation segment

5. I/O VARIABLES

A. INPUT	LOCATION
AREA	/AMPZIJ/
ETA	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XIJ,YIJ,ZIJ	F.P.
B. OUTPUT	LOCATION

EXIT1,EYIT1,EZIT1 /AMPZIJ/

EXIT2,EYIT2,EZIT2 /AMPZIJ/

EXRT1,EYRT1,EZRT1 /AMPZIJ/

EXRT2,EYRT2,EZRT2 /AMPZIJ/

6. CALLING ROUTINES:

NTRPLU

WYRPAT

7. CALLED ROUTINES:

ASSIGN

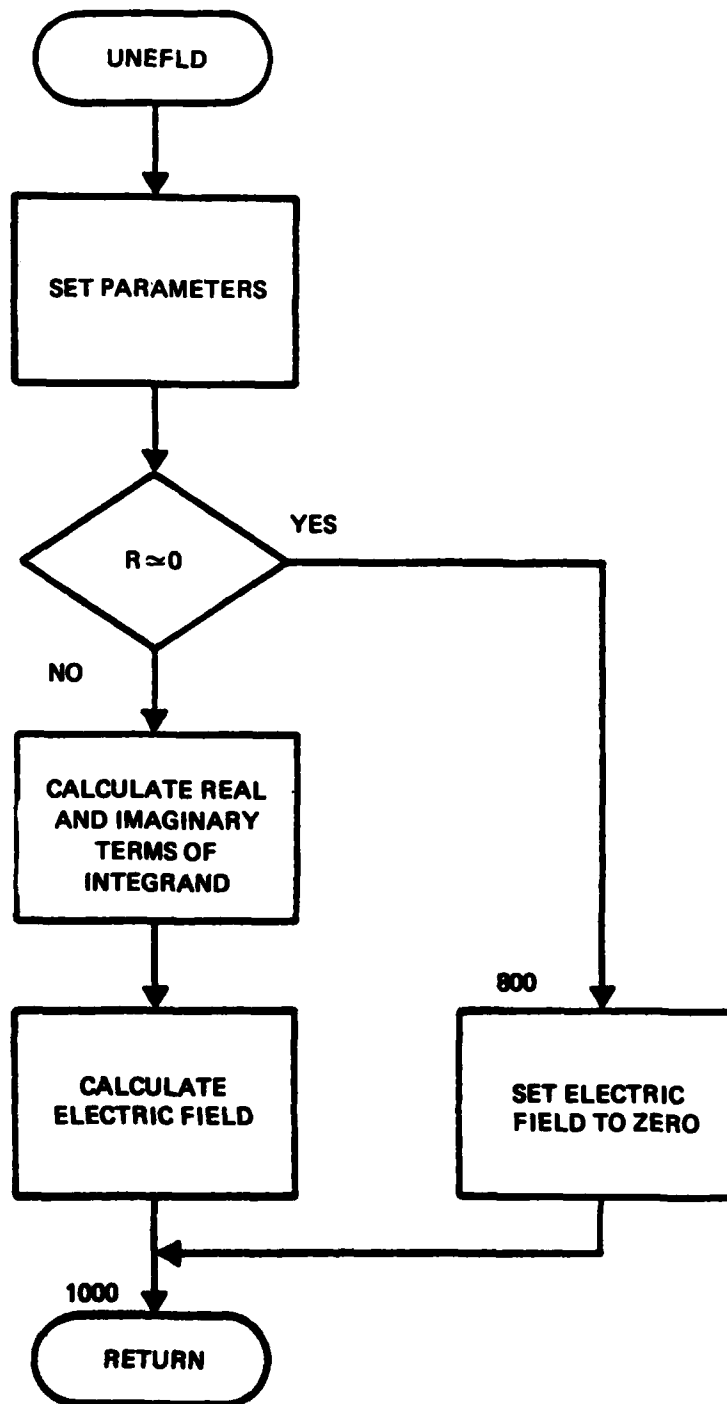
STATIN

STATOT

WLKBACK

UNEFLD

(MOM)



1. NAME: UNHFLD (MOM)
2. PURPOSE: To calculate the magnetic field due to a unit current in the \hat{t}_1 and \hat{t}_2 directions on the patch source.
3. METHOD: The magnetic field is calculated at a patch observation point due to the unit currents on a patch source j . The magnetic field is given by

$$\bar{H}(\bar{r}) = \frac{-A}{4\pi} \left[\left(1 + jkR \right) \frac{e^{-jkR}}{R^3} \right] \left[\bar{R} \times \bar{J}_j \right]$$

where \bar{R} is the vector from the source to the observation point and A is the area of the source patch. This expression treats the surface currents as lumped at the center of the patch. \bar{H} is computed in the direction of the vectors \hat{t}_1 and \hat{t}_2 .

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	The area of the source patch
CRK	$\cos(kR)$
EXIT1,EYIT1,EZIT1 EXRT1,EYRT1,EZRT1	Imaginary and real part of magnetic field at an observation patch due to current in the \hat{t}_1 direction on source patch
EXIT2,EYIT2,EZIT2 EXRT2,EYRT2,EZRT2	Imaginary and real part of magnetic field at an observation patch due to current in the \hat{t}_2 direction on source patch
R	The magnitude of the vector from the source patch to the observation patch
RK	kR
R2	R^2
R3	R^3
SRK	$\sin(kR)$
TI,TR	Imaginary and real part of $\frac{-A}{4\pi} \left[\left(1 + jkR \right) \frac{e^{-jkR}}{R^3} \right]$

TIX,TIY,TIZ	Temporary variables used in computing the magnetic field
TRX,TRY,TRZ	
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XIJ,YIJ,ZIJ	X,Y, and Z components of vector from source patch to observation patch

5. I/O VARIABLES:

A. INPUT	LOCATION
AREA	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XIJ,YIJ,ZIJ	F.P.
B. OUTPUT	LOCATION
EXIT1,EYIT1,EZIT1	/AMPZIJ/
EXIT2,EYIT2,EZIT2	/AMPZIJ/
EXRT1,EYRT1,EZRT1	/AMPZIJ/
EXRT2,EYRT2,EZRT2	/AMPZIJ/

6. CALLING ROUTINE:

NTRPLU

7. CALLED ROUTINES:

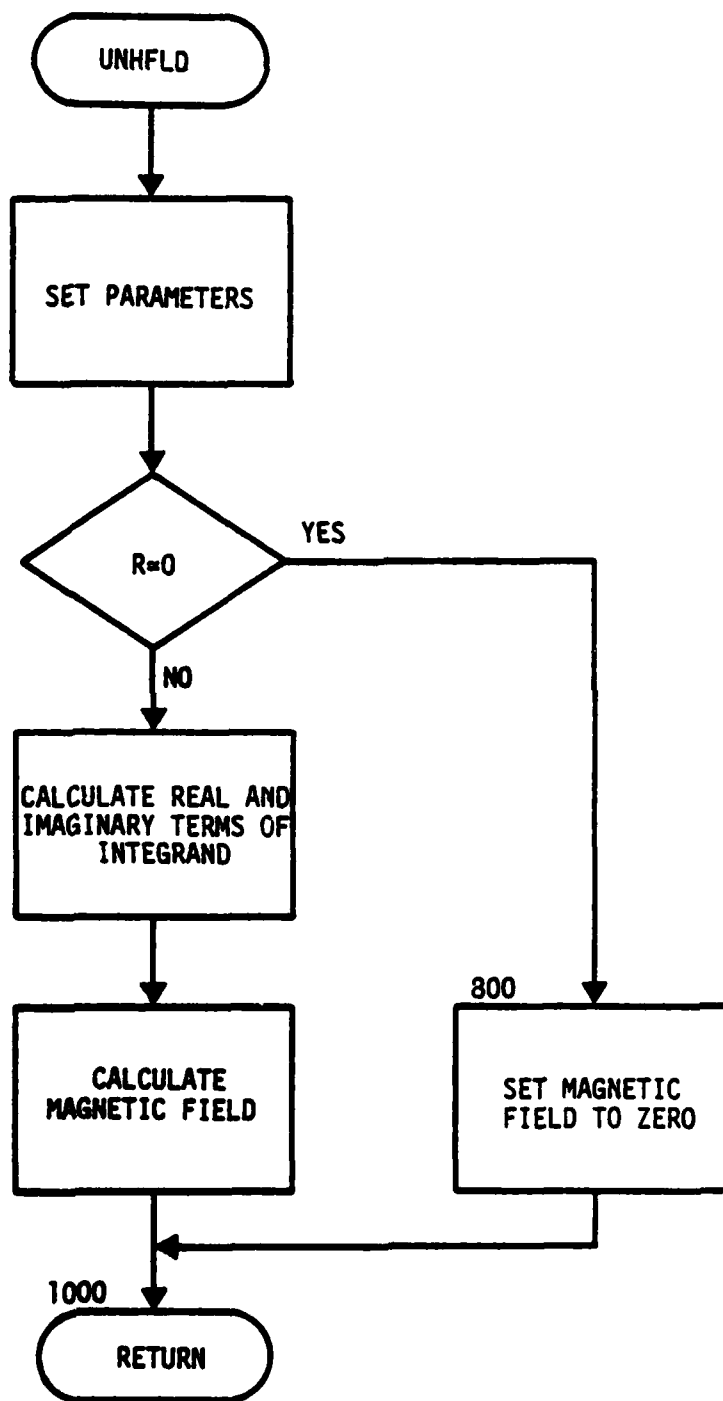
ASSIGN

STATIN

STATOT

WLKBCX

UNHFLO (MOM)



1. NAME: WLKBACK (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: To accumulate the walkback table information.
3. METHOD: The subroutine accumulates a table of the subroutine linkage to the current position. If the name of the subroutine called through the argument is the same as the last name in the table, it is removed from the table. If it is not the same as the last name, it is entered into the last position of the table and the table pointer is incremented by 1.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
IBLKL	A blank field
MXWALK	Maximum number of entries in walkback table
NAMSB	Input argument, coded name of subroutine being entered or exited

5. I/O VARIABLES:

A. INPUT	LOCATION
LUPRNT	/ADEBUG/
MXWALK	/ADEBUG/
NAMRTN	/ADEBUG/
NAMSB	F.P.
B. OUTPUT	LOCATION
INDXWB	/ADEBUG/
NAMRTN	/ADEBUG/

6. CALLING ROUTINES:

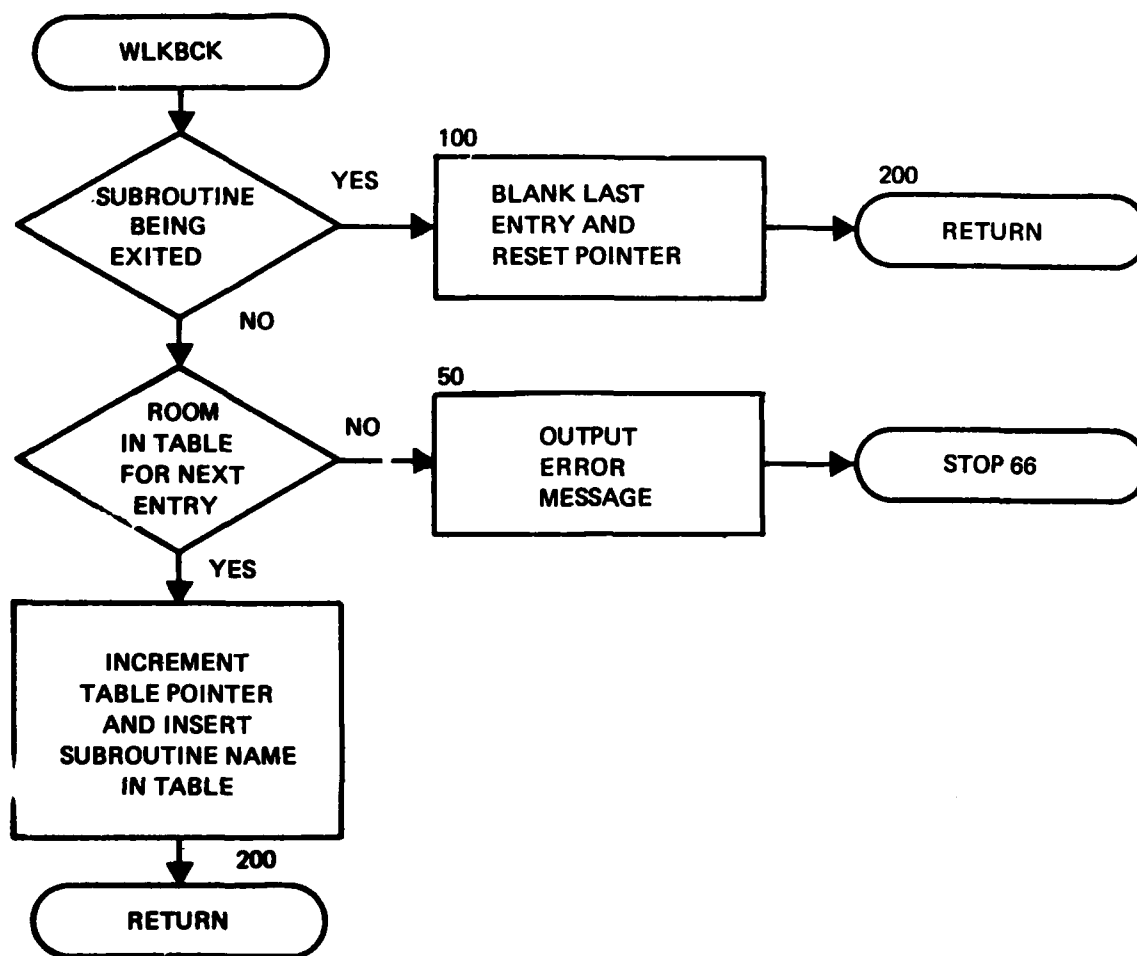
All major routines.

7. CALLED ROUTINES:

TRCEBK

WLKBCK

(GTD, INPUT, MOM, OUTPUT)



1. NAME: WRTCHK (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Write the information needed for a checkpoint or end-of-module restart file.
3. METHOD: The common areas specified in the RWCOMS routine are written to the IOCKPT logical unit. After this is completed, the peripheral files which are currently open are rewound and written out to the IOCKPT file.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
DT	Elapsed time between calls to TICHEK
FSTCHK	Flag indicating if first checkpoint on ICKFIL
ICKFIL	Checkpoint file number
NREAD	Flag to tell RWCOMS to write common areas to IOCKPT
T	Time that the checkpoint is being taken

5. I/O VARIABLES:

A. INPUT	LOCATION
CPFRWD	/SYSFIL/
IMDCHK	/ADEBUG/
IOCKPT	/SYSFIL/
IOFILE	/IOFLES/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
LUPRNT	/ADEBUG/
MODCHK	/SYSFIL/
NDATBL	/PARTAB/
NPDATA	/PARTAB/

WRTCHK (GTD, INPUT, MOM, OUTPUT)

B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
IWRTCK	/ADEBUG/
NUMCHK	/SYSFIL/

6. CALLING ROUTINES*:

ERROR (1,2,3,4)

SOLDRV (3)

STATFN (1,2,3,4)

SYSCHK (1,2,3,4)

TSKXQT (2,3,4)

7. CALLED ROUTINES:

ASSIGN	RWFILS
--------	--------

CLSFIL	STATIN
--------	--------

GETSYM	STATOT
--------	--------

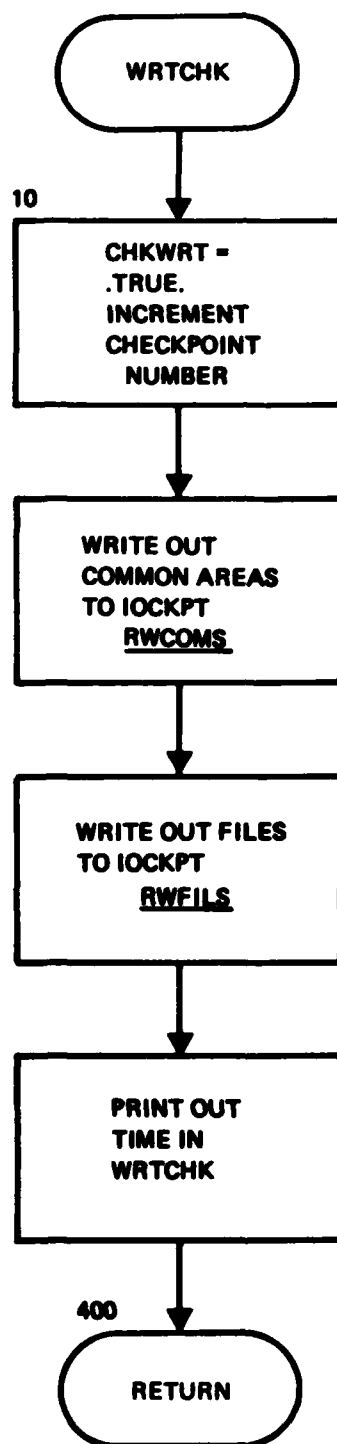
OPNFIL	TICHEK
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PUTSYM	WLKBCK
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RWCOMS	WRTFIL
--------	--------

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

WRTCHK (GTD, INPUT, MOM, OUTPUT)



1. WRTFIL (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Central output routine for all peripheral files.
3. METHOD: The data called through the input argument list are transferred to the logical unit specified using a FORTRAN binary write. The position of the file is incremented by the number of words written to the file and if the file has been extended, the end of file flag is extended to point to the total number of words which have been written.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
LUNIT	Input argument designating logical unit
NWORDS	Input argument specifying number of computer words to be written to the designated logical unit
XWORDS	Input argument array containing the data to be written to the specified logical unit

5. I/O VARIABLES:

A. INPUT	LOCATION
DBGPRT	/ADEBUG/
IOFILE	/IOFLES/
ISON	/ADEBUG/
LUNIT	F.P.
LUPRNT	/ADEBUG/
NWORDS	F.P.
XWORDS	F.P.
B. OUTPUT	LOCATION
IERRF	/ADEBUG/
IOFILE	/IOFLES/
NDFILE	/IOFLES/

6. CALLING ROUTINES*:

BUBBLE (1)

DECOMP (3)

GEODRV (1)

PRTSYM (3)

PUTSYM (1,2,3,4)

RWCOMS (1,2,3,4)

RWFILS (1,2,3,4)

SOLDRV (3)

SUBPAT (1)

WRTCHK (1,2,3,4)

7. CALLED ROUTINES:

ASSIGN

ERROR

STATIN

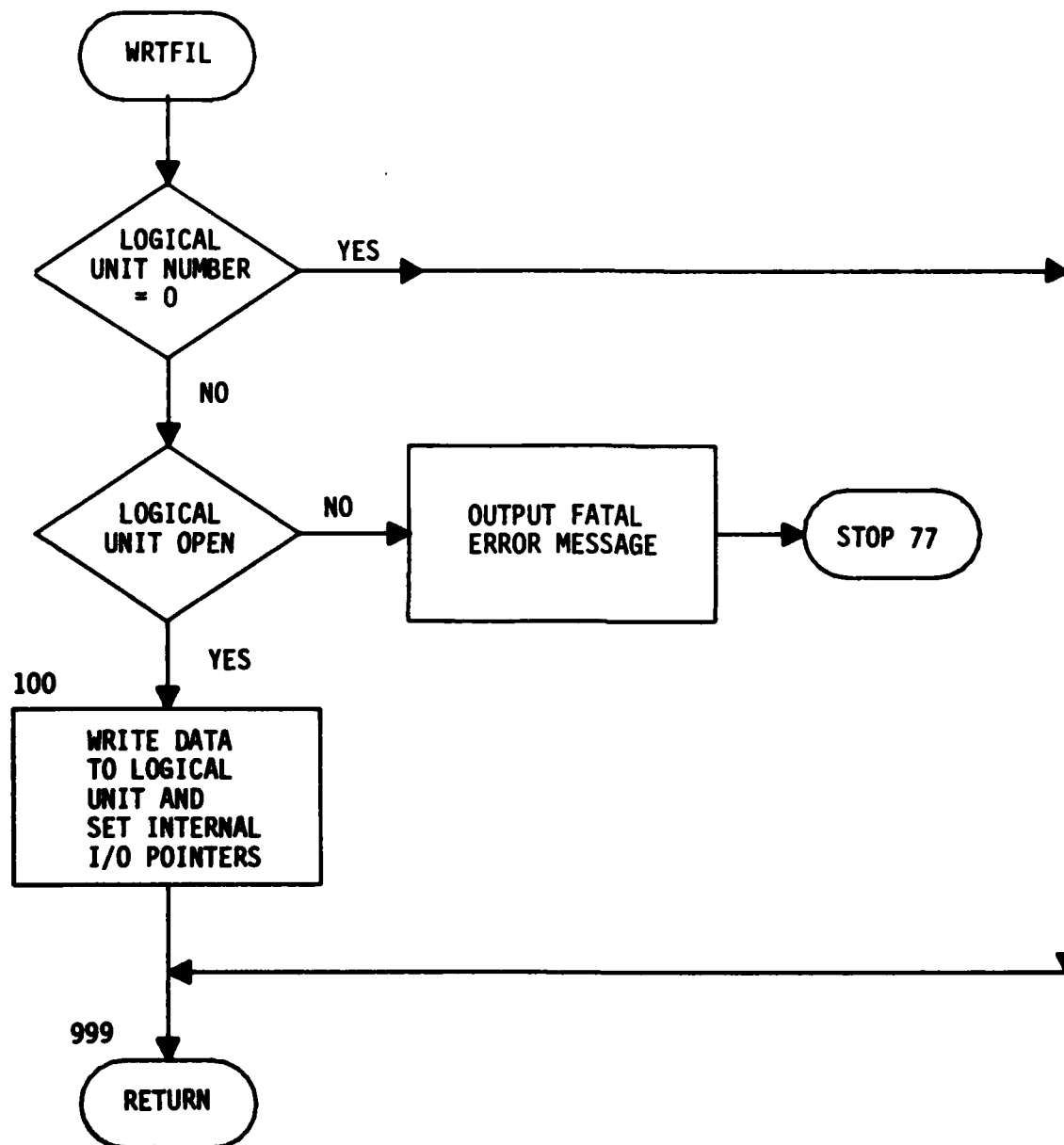
STATOT

WLKBACK

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

WRTFIL

(GTD, INPUT, MOM, OUTPUT)



1. NAME: WYRDRV (INPUT)
2. PURPOSE: Processes the user-format MOM and GTD geometry objects and macro-object generation commands to generate, coordinate and orient angles for all wire segments, patches, plates, cylinders, and end caps desired in the geometry.
3. METHOD: WYRDRV calls subroutine SCAN to read a geometry data set card. SCAN returns the card's data in VAL and NVAL. The first item is checked against the set of geometry mnemonics, and a branch is made to that portion of the code which handles the mnemonic. The geometry data set cards are read in sequence by SCAN until an END card is encountered.

The geometry objects presently implemented (with mnemonic in parenthesis) are point (PT), wire (WR), patch (PA), plate (PL), cylinder (CY), and end cap (EC). Wire segments may also be created with the connect point (CP) and multiple point (MP) commands. Wire radii are specified on the radius (RA) card.

Commands available for scaling, coordinate transformation, and symmetry are coordinate system (CS), scale (SC), plane symmetry (PSYM) and rotational symmetry (RSYM). Segments may be renumbered with the renumber (RN) command.

Macro-geometry elements may be created with the define element (DF) and define end (DE) commands.

Individual objects or macro-elements may be replicated by using the translation (XL), rotation (RX, RY, RZ), and reflect (RF) commands. A macro-element may be assigned a different coordinate system with the attach (AT) command.

Details on the use of these geometry commands may be found in the GEMACS User Manual.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
DX	Segment length in x direction
DY	Segment length in y direction
DZ	Segment length in z direction
ERRMSG	Array containing error messages
FJS	Number of segments on a wire

WYRDRV (INPUT)

IADD	Integer number of additional objects to be generated in a translation
IARG	Index to the scan tables
IARGS	Number of arguments
ICS	Index to coordinate system in which a given operation is desired
ICSSAV	Saves the ICS index
ICSYS	Last used coordinate system index
IC1	The old coordinate system
IC2	The new coordinate system
IFOUND	Flag indicating defined element found
ILIM	Limit to IDEFIN array
IMN	Temporary variable
INCTAG=INCTG	Tag increment number for new segments
INP	Number of points to be multiply connected
INPP3	INP + 3
INPP4	INP + 4
INPP5	INP + 5
IPL	User-assigned plate number
IPL1	Plate number of plate created by macro-geometry command
IPT	Geometry point number
IPTNUM	Point number
IPTTAG	Temporary variable
IPT1	First point to be operated upon
IPT2	Last point to be operated upon

WYRDRV (INPUT)

IP1	Temporary variable
IP2	Temporary variable
IRAD	Wire radius
IRADSV	Saved wire radius
IS	Segment number
ISAV	Temporary variable
ISEGSV	Temporary variable
ISEG1	First segment to be operated upon
ISEG2	Last segment to be operated upon
ITAG	Tag identifier
ITYPE	Type of data being operated upon
IXL	Designates translation requirement (= ISON) or no requirement (= ISOFF)
IX1	Packed word for plates containing number of corners, plate number, and linking information
LSTDFN	Reference to end statement for a given define
LSTMN	Number of mnemonics
MITAG	Minus ITAG
MN	Indices to NCODES array
MP	Multiple point flag
NCORN	Number of plate corners
NDXERR	Pointer to error format table
NDXON	Pointer to "ON" in NCODES array
NDXTRC	Pointer to "TRACE" in NCODES array
NEWNAM	Defined element name

WYRDRV (INPUT)

NEWNUM	New segment number
NMP	Number of points on MP card
NPRMSG	Number of words per message
NPTSYM	Point symmetry flag
NRF	Flag indicating number of reflection axis
NRFP4	NRF + 4
NRFP5	NRF + 5
NUMDEF	Number of defined elements
NUMELM	Number of elements to be combined
NUMFND	Number of elements found
NUMREN	Number of segments to be renumbered
NXTPT	Next point
NXTSEG	Next segment
R	Radius table
X,Y,Z	X,Y, and Z coordinates of geometry input point
XN,YN,ZN	Negative end of wire segment joining two points
XP,YP,ZP	Positive end of wire segment joining two points
XQ,YQ,ZQ	Third coordinate values after rotation and/or translation
X1,Y1,Z1	End points
X2,Y2,Z2	End points
X3,Y3,Z3	Third coordinate values

5. I/O VARIABLES:

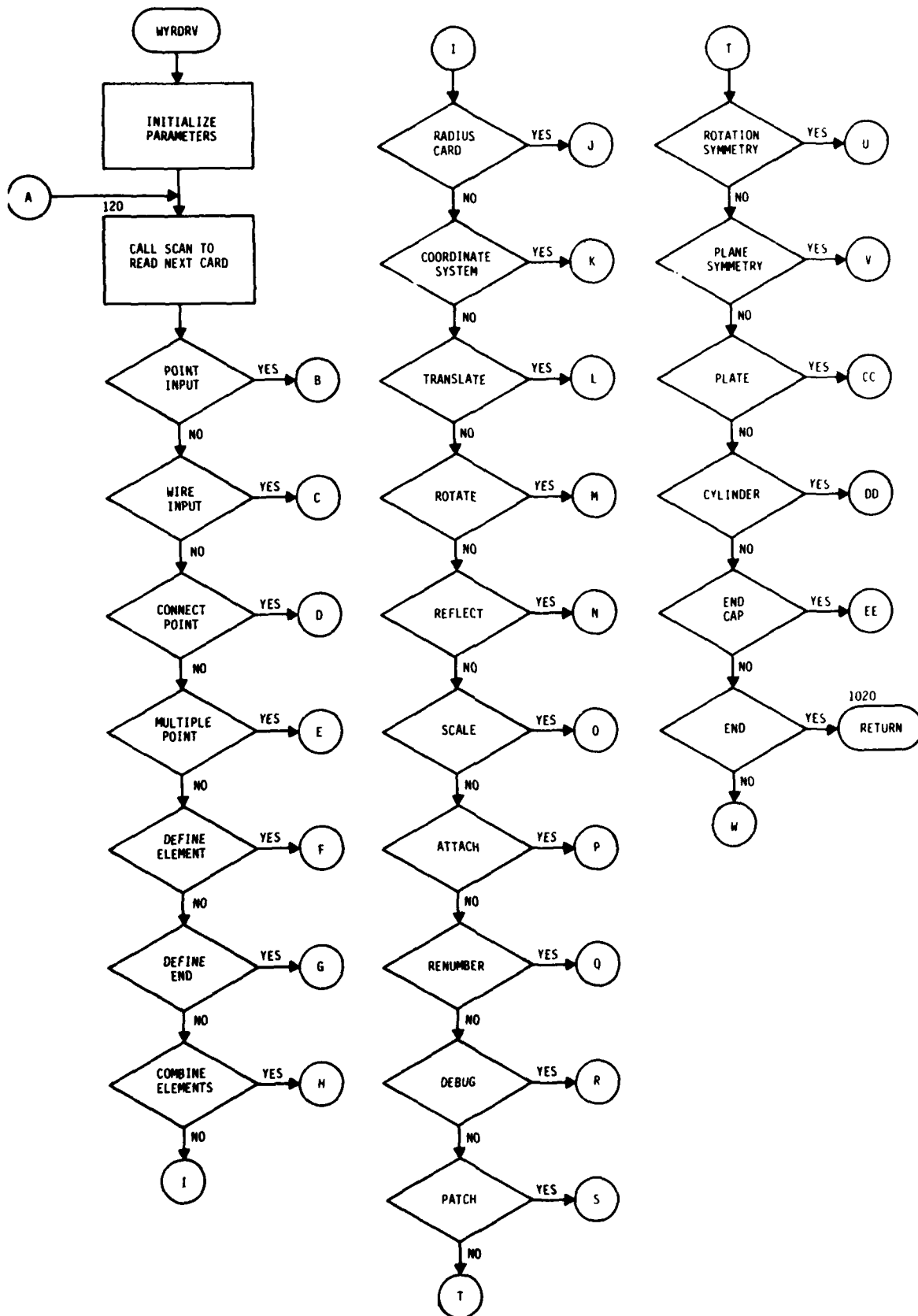
A. INPUT	LOCATION
ISOFF	/ADEBUG/
ISON	/ADEBUG/
NCODE	/SCNPAR/
NVAL	/SCNPAR/
B. OUTPUT	LOCATION
ISGTBL	/SEGMNT/
SEGTBL	/SEGMNT/

6. CALLING ROUTINE:

GEODRV

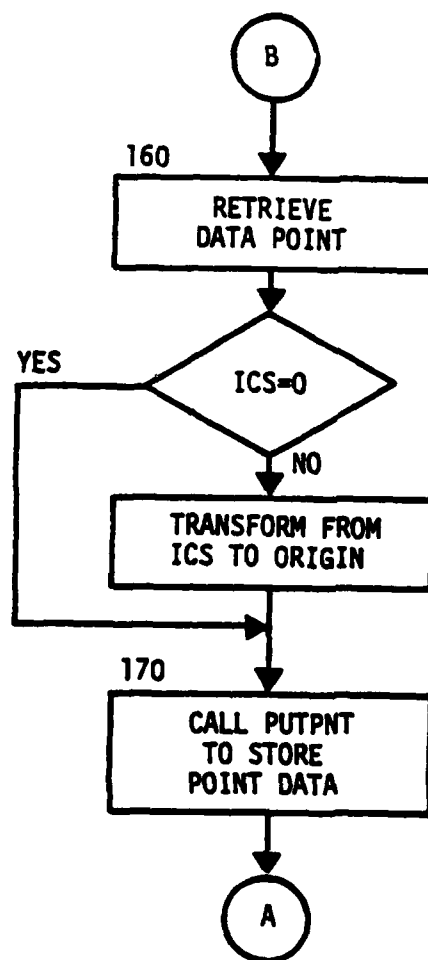
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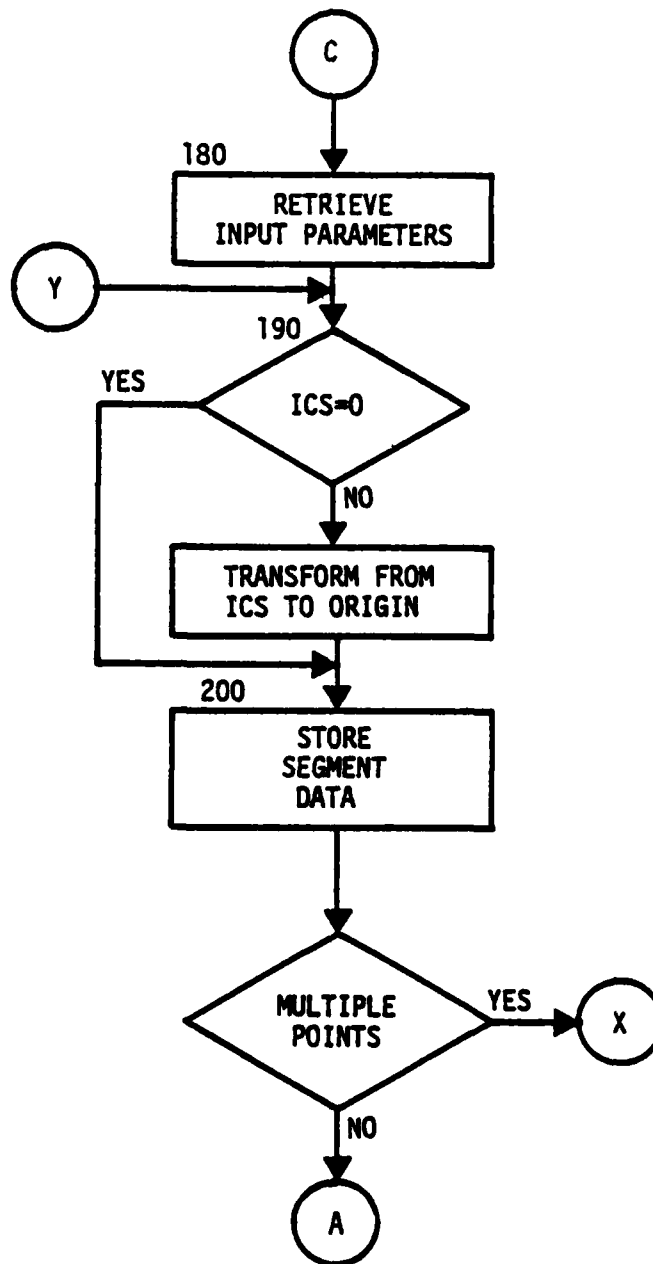
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COORDS	REFLCT
CYLNR	ROTATE
ENDCAP	SCAN
GETPNT	STATIN
GETSEG	STATOT
PATCH	TRNLAT
PLATE	WKLBC
PUTPNT	



WYRDRV (INPUT)

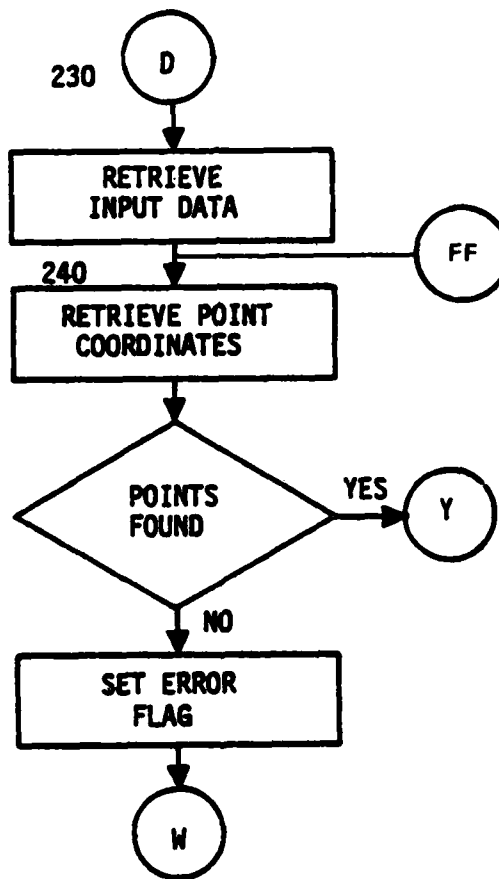
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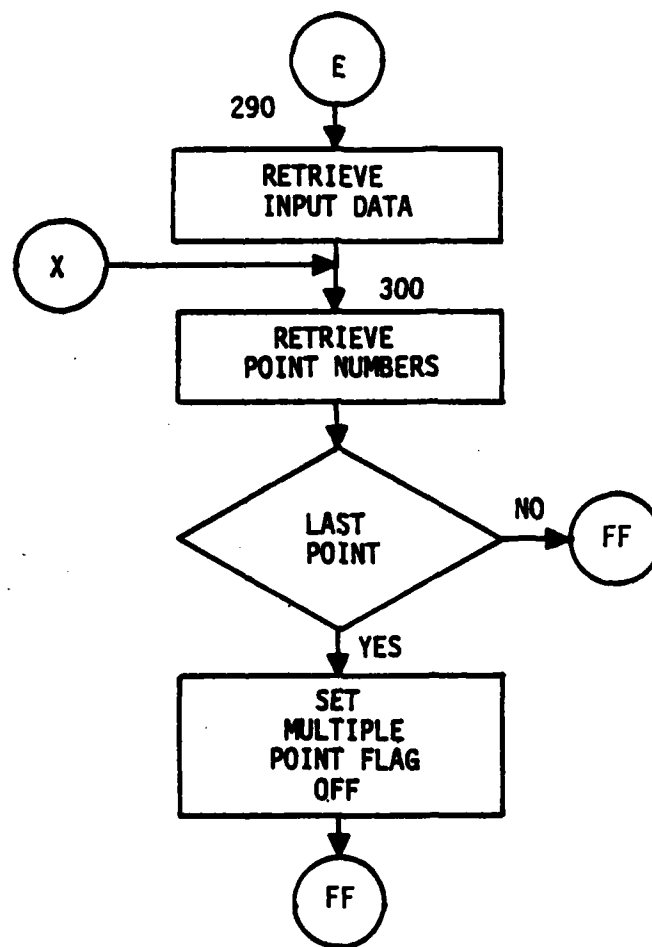
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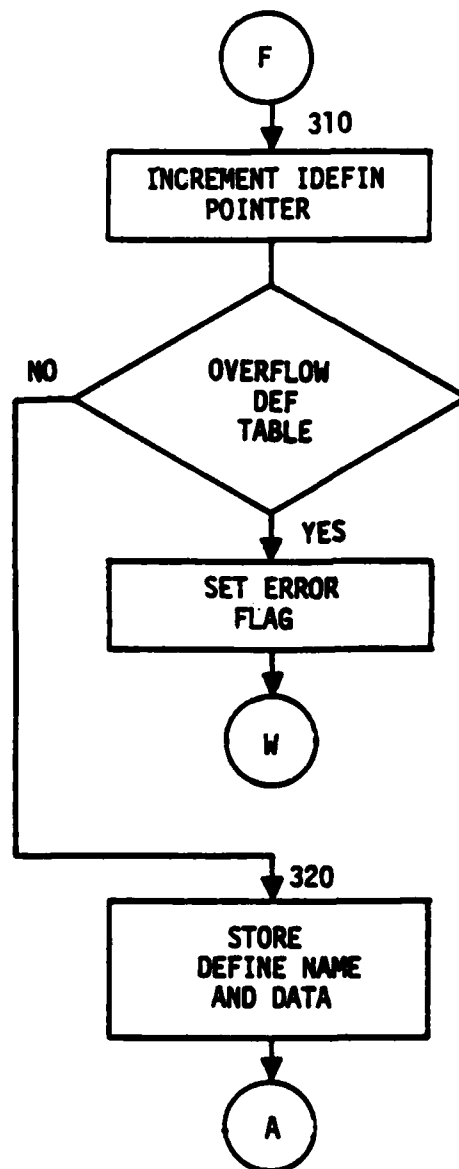
Page 4 of 18

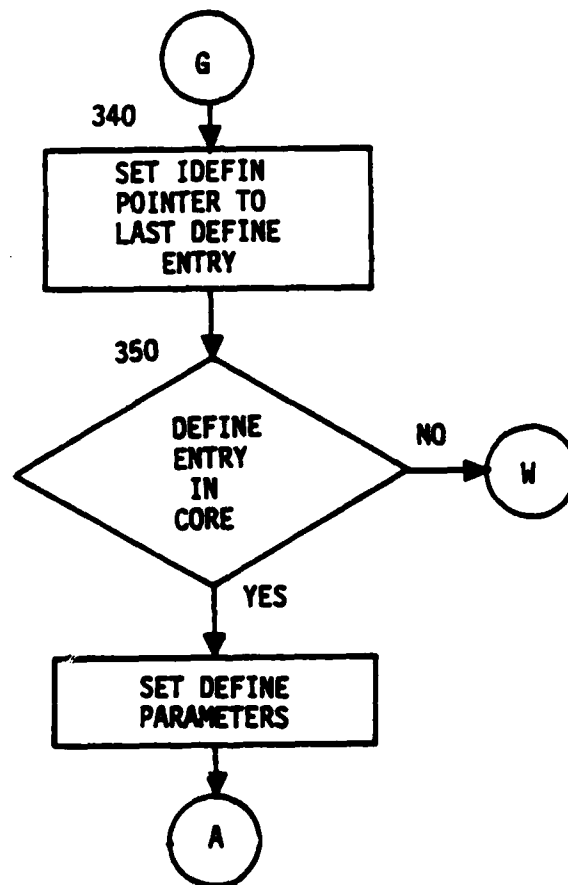


WYRDRV (INPUT)

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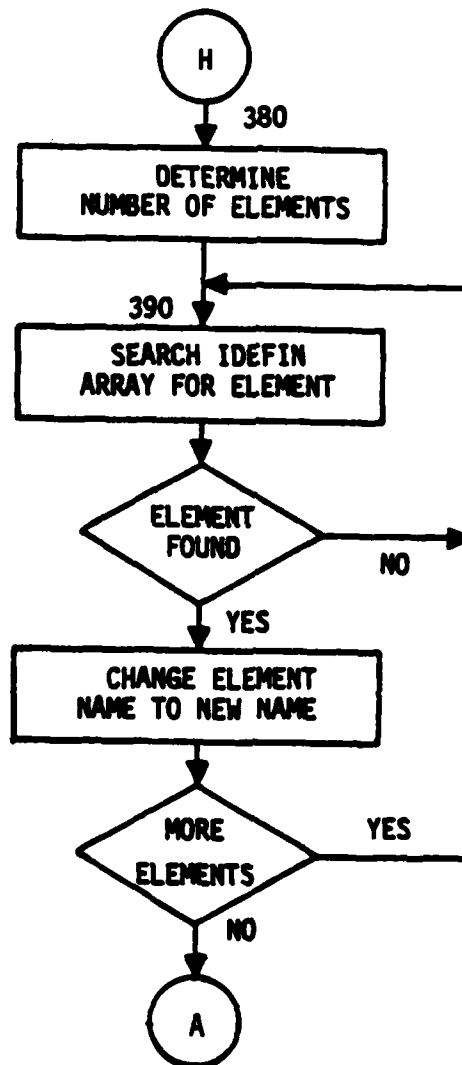






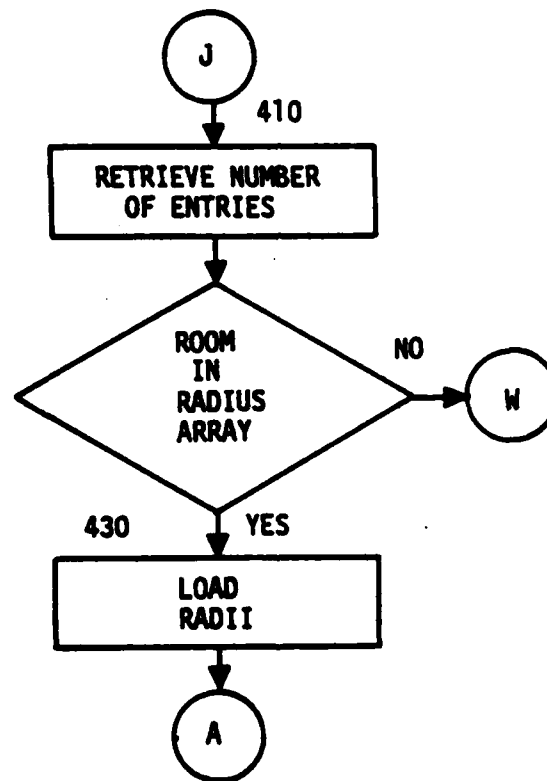
WYRDRV (INPUT)

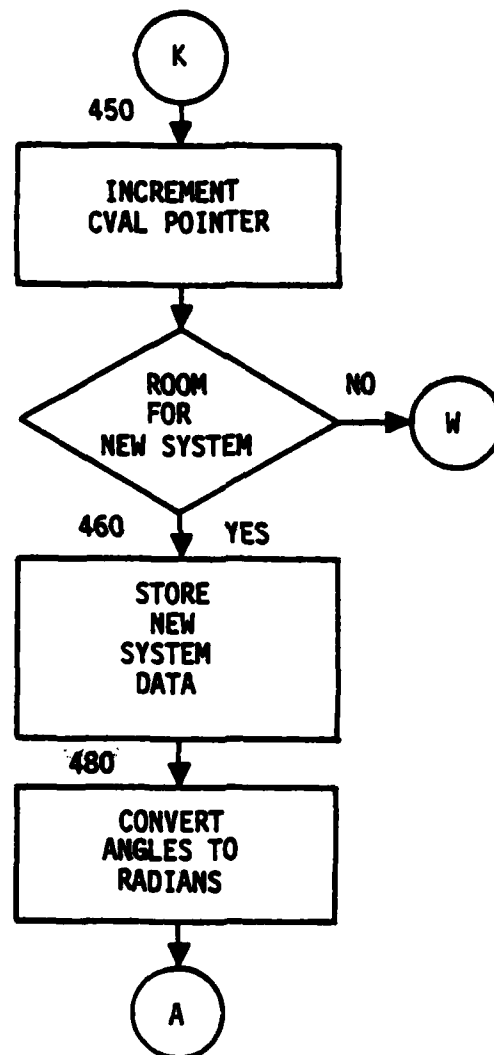
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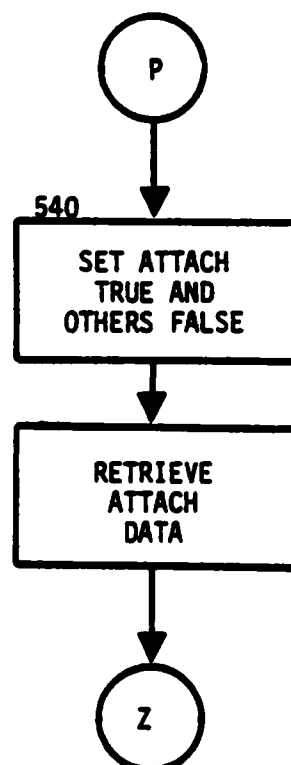
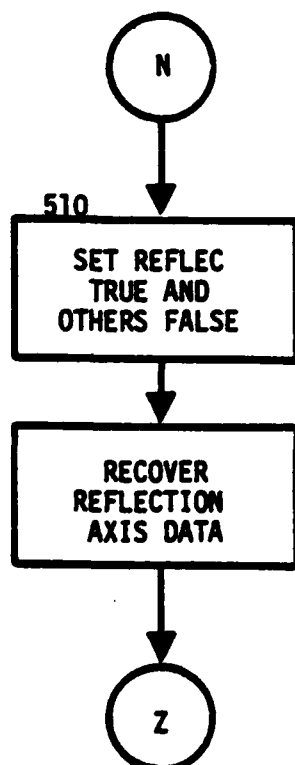
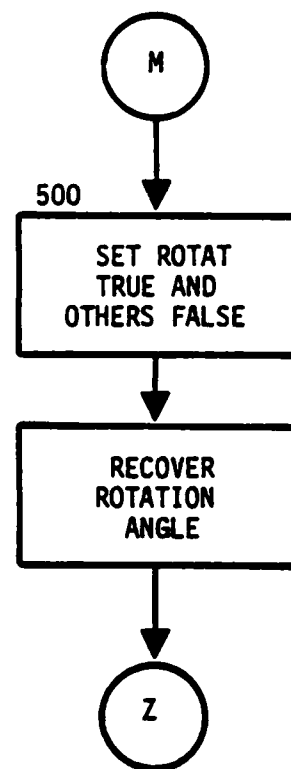
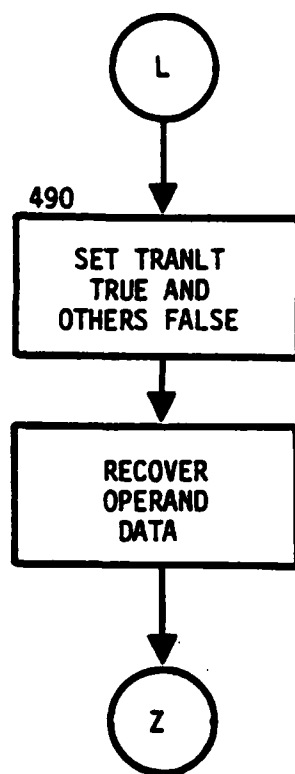


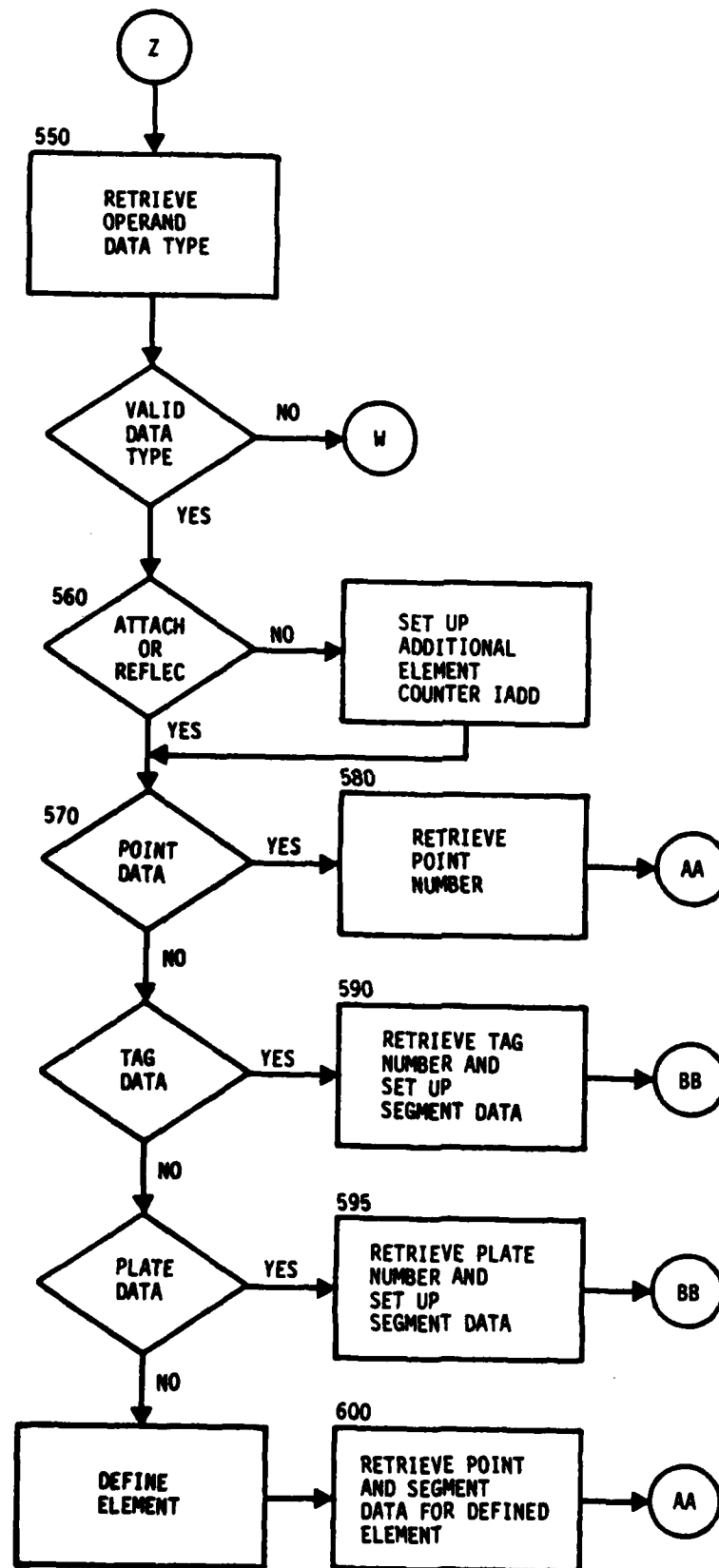
WYRDRV (INPUT)

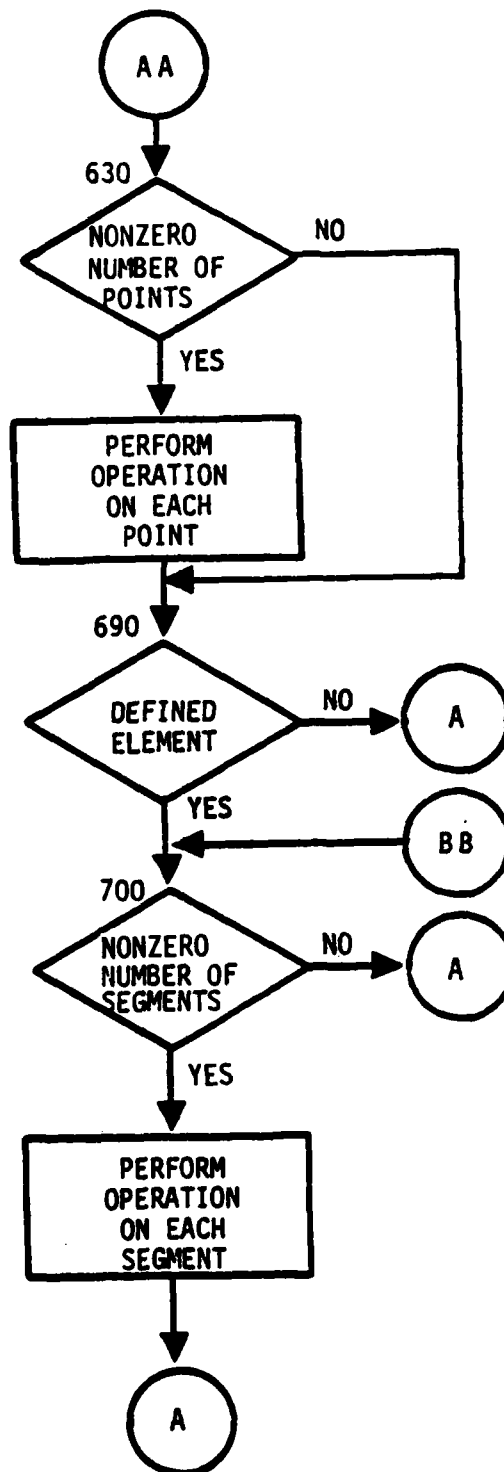
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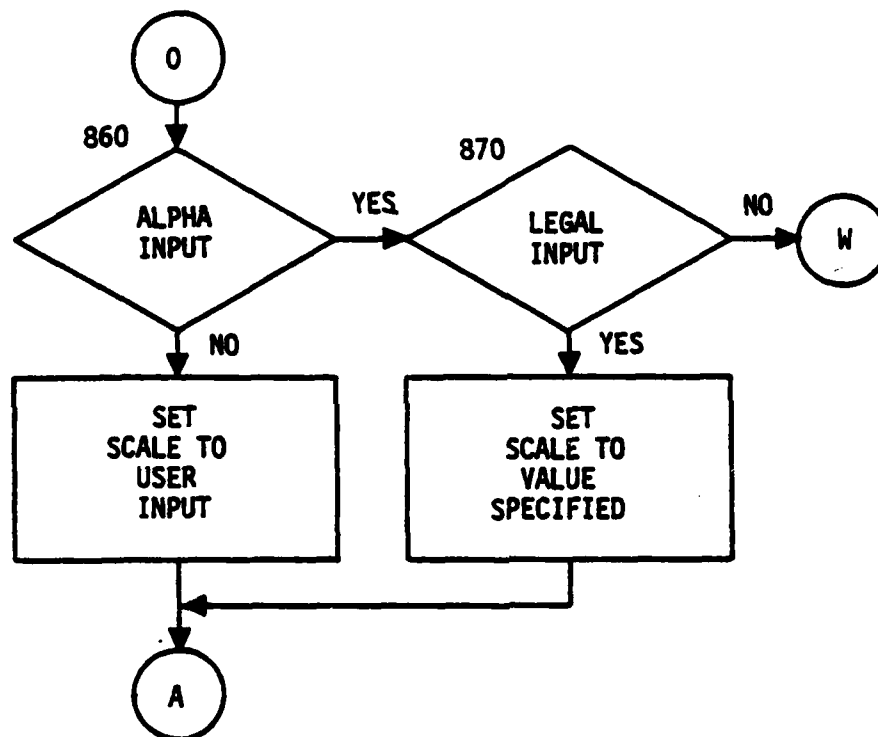


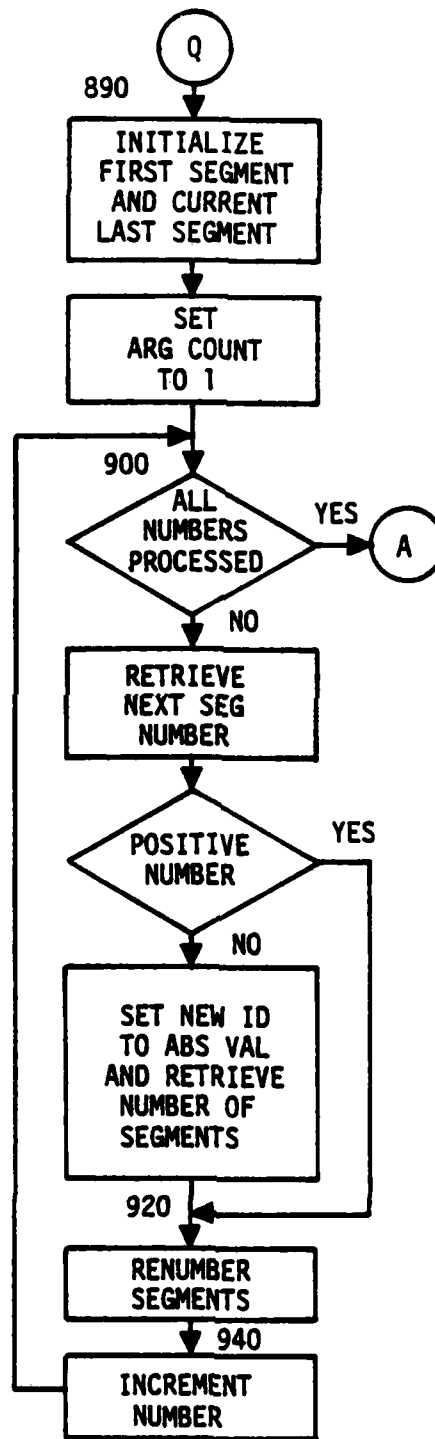


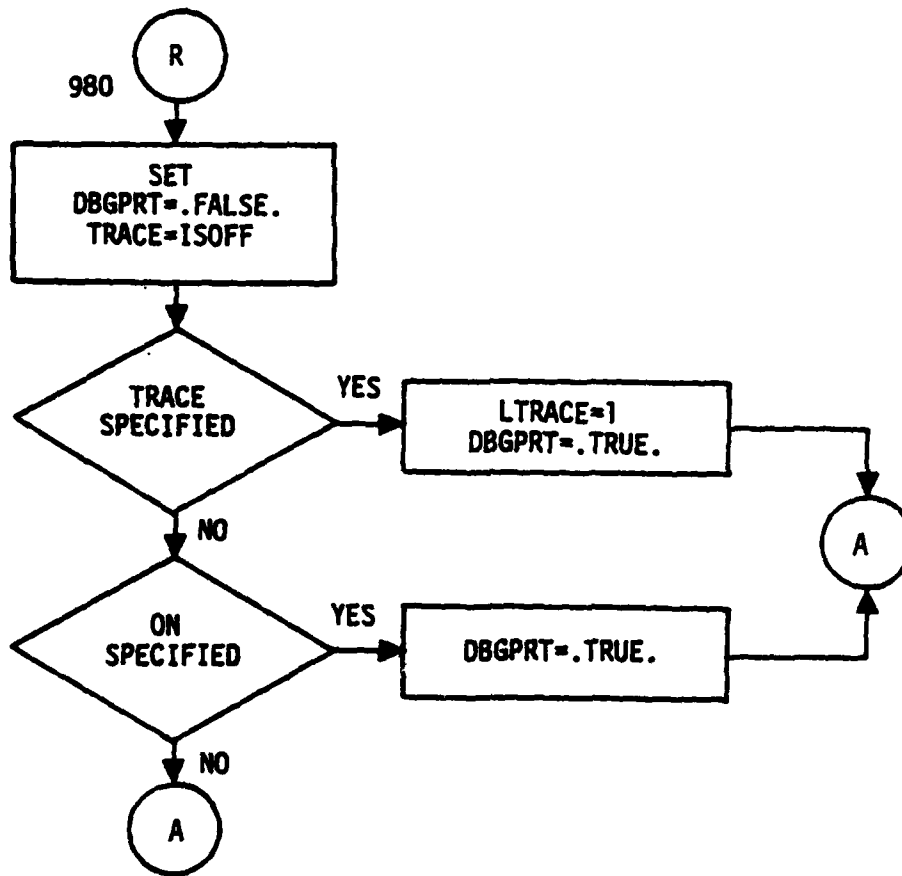








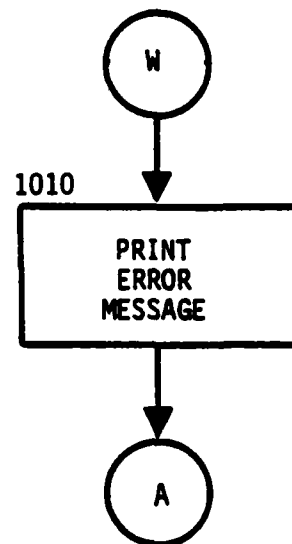
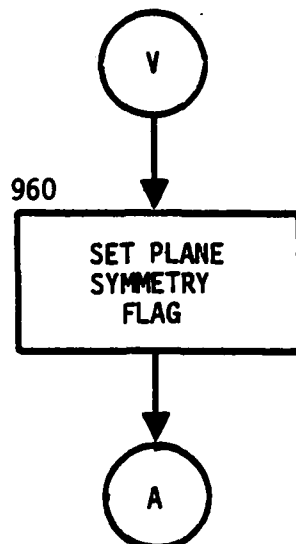
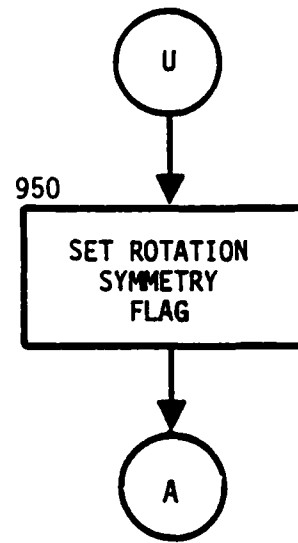
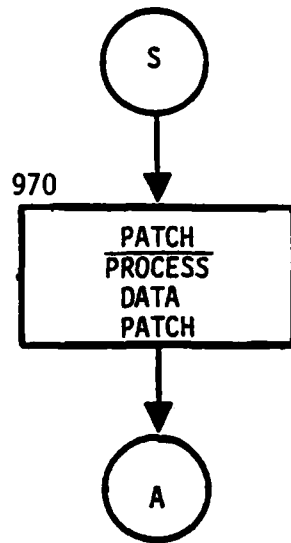




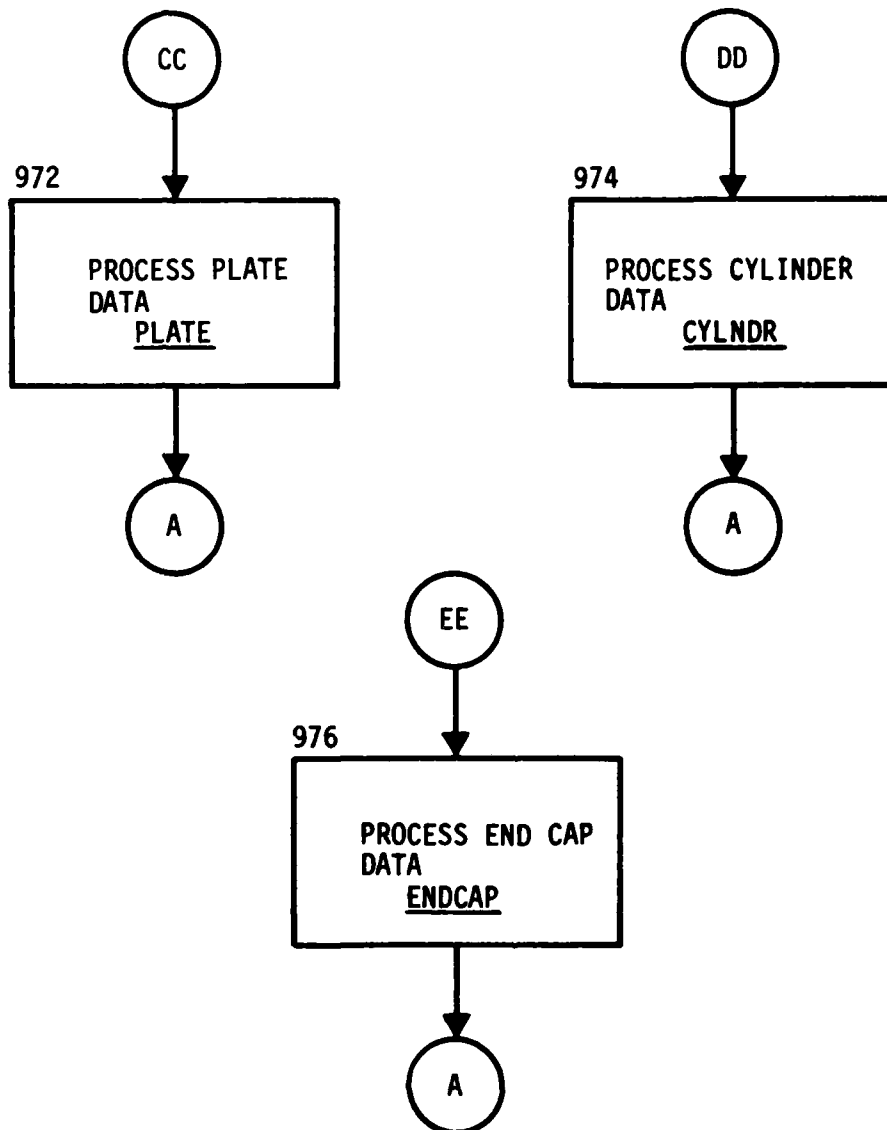
WYRDRV

(INPUT)

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WYRDRV (INPUT)



1. NAME: WYRPAT (MOM)
2. PURPOSE: Calculates the tangential electric field at the observation segment connected to a surface due to the current on the four patches around the connection point.
3. METHOD: When a wire is found to be connected to a patch, the patch is divided into four equal-area subpatches. These patches are located with respect to the vectors \hat{t}_1 and \hat{t}_2 as shown in figure 1, and the patch numbers indicate the order in the data array.

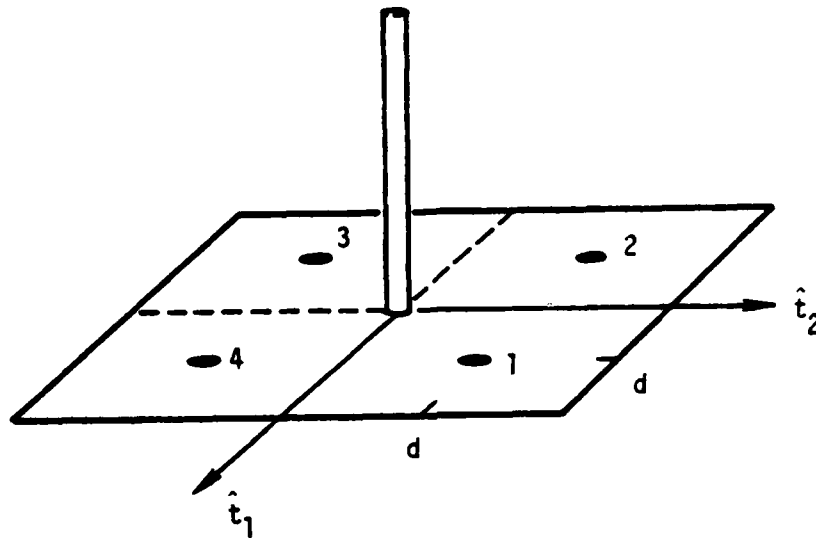


Figure 1. Subpatch Orientation and Geometry

The position of a point on the surface is defined by $\bar{\rho}(S_1, S_2) = \bar{\rho}_0 + S_1\hat{t}_1 + S_2\hat{t}_2$, where $\bar{\rho}_0$ is the position of the center of the four patches where the wire connects, and S_1 and S_2 are coordinates measured from the center.

The current over the surface is represented by $\bar{J}(S_1, S_2)$. The currents at the centers of the four patches are:

$$\bar{J}_1 = \bar{J}(d, d)$$

$$\bar{J}_2 = \bar{J}(-d, d)$$

$$\bar{J}_3 = \bar{J}(-d, -d)$$

$$\bar{J}_4 = \bar{J}(d, -d)$$

and the current at the base of the segment, flowing onto the surface, is I_0 . The current interpolation function is then

$$\bar{J}(S_1, S_2) = \left[\bar{f}(S_1, S_2) - \sum_{i=1}^4 g_i(S_1, S_2) \bar{f}_i \right] I_0 + \sum_{i=1}^4 g_i(S_1, S_2) \bar{J}_i$$

where

$$\bar{f}(S_1, S_2) = \frac{S_1 \hat{t}_1 + S_2 \hat{t}_2}{2\pi(S_1^2 + S_2^2)}$$

$$\bar{f}_1 = \bar{f}(d, d) = (\hat{t}_1 + \hat{t}_2)/(4\pi d)$$

$$\bar{f}_2 = \bar{f}(-d, d) = (-\hat{t}_1 + \hat{t}_2)/(4\pi d)$$

$$\bar{f}_3 = \bar{f}(-d, -d) = (-\hat{t}_1 - \hat{t}_2)/(4\pi d)$$

$$\bar{f}_4 = \bar{f}(d, -d) = (\hat{t}_1 - \hat{t}_2)/(4\pi d)$$

and

$$g_1(S_1, S_2) = (d + S_1)(d + S_2)/(4d^2)$$

$$g_2(S_1, S_2) = (d - S_1)(d + S_2)/(4d^2)$$

$$g_3(S_1, S_2) = (d - S_1)(d - S_2)/(4d^2)$$

$$g_4(S_1, S_2) = (d + S_1)(d - S_2)/(4d^2)$$

If $\bar{\epsilon}_1(\bar{\rho})dA$ and $\bar{\epsilon}_2(\bar{\rho})dA$ are the electric fields at the center of the connected segment due to unit currents at $\bar{\rho}$ on the surface dA , flowing in the directions \hat{t}_1 and \hat{t}_2 , respectively, the nine matrix elements to be computed are

$$E_1 = \int_S g_1(S_1, S_2) \hat{t}_1 \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_2 = \int_S g_2(S_1, S_2) \hat{t}_2 \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_3 = \int_S g_3(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_4 = \int_S g_4(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) dA$$

$$E_5 = \int_S g_1(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_6 = \int_S g_2(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_7 = \int_S g_3(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_8 = \int_S g_4(S_1, S_2) \hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) dA$$

$$E_9 = \int_S \left[\bar{h}(S_1, S_2) \cdot \hat{t}_1 \right] \left[\hat{I} \cdot \bar{\epsilon}_1(\bar{\rho}) \right] + \left[\bar{h}(S_1, S_2) \cdot \hat{t}_2 \right] \left[\hat{I} \cdot \bar{\epsilon}_2(\bar{\rho}) \right] dA$$

where

$$\bar{h}(S_1, S_2) = \bar{f}(S_1, S_2) - \sum_{i=1}^4 g_i(S_1, S_2) \bar{f}_i$$

and where \hat{I} is the unit vector in the direction of the connected segment.

The integration is over the total area of the four patches and is performed by numerical quadrature. The number of increments in S_1 and S_2 used in integration is set by the variable NINT. When

WYRPAT is called, the parameters in AMPZIJ have the values for the first connected patch. During the integration, these parameters are set for each integration patch. At the end of WYRPAT they are reset to their original values.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AREA	Surface area of source patch
AREASV	Saved surface area of source patch
CABI	Observation segment unit vector in the x direction
D	Perpendicular distance from the center point of the patch to the edge of patch
DA	Differential area for source patch
DS	Length of the side of the differential area
EI1 to EI9	Imaginary part of E1 to E9
ER1 to ER9	Real part of E1 to E9
ETI1,ETRI	Imaginary and real part of the projection of the electric field on the observation segment due to current in \hat{t}_1 direction on the source path
ETI2,ETR2	Imaginary and real part of the projection of the electric field on the observation segment due to current in \hat{t}_2 direction on the source path
EWPR,EWPI	An array to store ER1 to ER9 and EI1 to EI9
EXIT1,EYIT1,EZIT1	X,Y, and Z components of imaginary part of electric field due to current in \hat{t}_1 direction on source patch at the observation segment
EXIT2,EYIT2,EZIT2	X,Y, and Z components of imaginary part of electric field due to current in \hat{t}_2 direction on source patch at the observation segment
EXRT1,EYRT1,EZRT1	X,Y, and Z components of real part of electric field due to current in \hat{t}_1 direction on source patch at the observation segment

EXRT2,EVRT2,EZRT2	X,Y, and Z components of real part of electric field due to current in \hat{t}_2 direction on source path at the observation segment
FCOM	$1/(4\pi d)$
F1	$\bar{h}(S_1, S_2) \cdot \hat{t}_1$
F2	$\bar{h}(S_1, S_2) \cdot \hat{t}_2$
GCOM	$1/(4d^2)$
G1	$g_1(S_1, S_2)$
G2	$g_2(S_1, S_2)$
G3	$g_3(S_1, S_2)$
G4	$g_4(S_1, S_2)$
NINT	Number of intervals used for approximating the integrals for E_1 to E_9
SABI	Observation segment unit vector in the y direction
SALPI	Observation segment unit vector in the z direction
S1	S_1 , distance from the center of the four patches in the \hat{t}_1 direction
S2	S_2 , distance from the center of the four patches in the \hat{t}_2 direction
S2SAVE	Initial value of S_2
T1XJ,T1YJ,T1ZJ	X,Y, and Z components of \hat{t}_1
T2XJ,T2YJ,T2ZJ	X,Y, and Z components of \hat{t}_2
XI,YI,ZI	X, Y, and Z coordinates of the observation segment
XIJ,YIJ,ZIJ	X,Y, and Z components of the vector separating observation segment and the patch source

WYRPAT (MOM)

XJ,YJ,ZJ	Coordinates of first patch or differential patch sources
XJSAVE,YJSAVE,ZJSAVE	The saved x,y, and z coordinates of the source patch
XSS,YSS,ZSS	Initial location of the differential patches

5. I/O VARIABLES:

A. INPUT	LOCATION
AREA	/AMPZIJ/
CABI	/AMPZIJ/
EXIT1	/AMPZIJ/
EXIT2	/AMPZIJ/
EXRT1	/AMPZIJ/
EXRT2	/AMPZIJ/
EYIT1	/AMPZIJ/
EYIT2	/AMPZIJ/
EYRT1	/AMPZIJ/
EYRT2	/AMPZIJ/
EZIT1	/AMPZIJ/
EZIT2	/AMPZIJ/
EZRT1	/AMPZIJ/
EZRT2	/AMPZIJ/
SABI	/AMPZIJ/
SALPI	/AMPZIJ/
TWOPI	/AMPZIJ/
TIXJ	/AMPZIJ/
TIYJ	/AMPZIJ/

WYRPAI (MOM)

T1ZJ	/AMPZIJ/
T2XJ	/AMPZIJ/
T2YJ	/AMPZIJ/
T2ZJ	/AMPZIJ/
XI	/AMPZIJ/
XJ	/AMPZIJ/
YI	/AMPZIJ/
YJ	/AMPZIJ/
ZI	/AMPZIJ/
ZJ	/AMPZIJ/

B. OUTPUT	LOCATION
EWPI	F.P.
EWPR	F.P.

6. CALLING ROUTINE:

NTRPLU

7. CALLED ROUTINES:

ASSIGN

STATIN

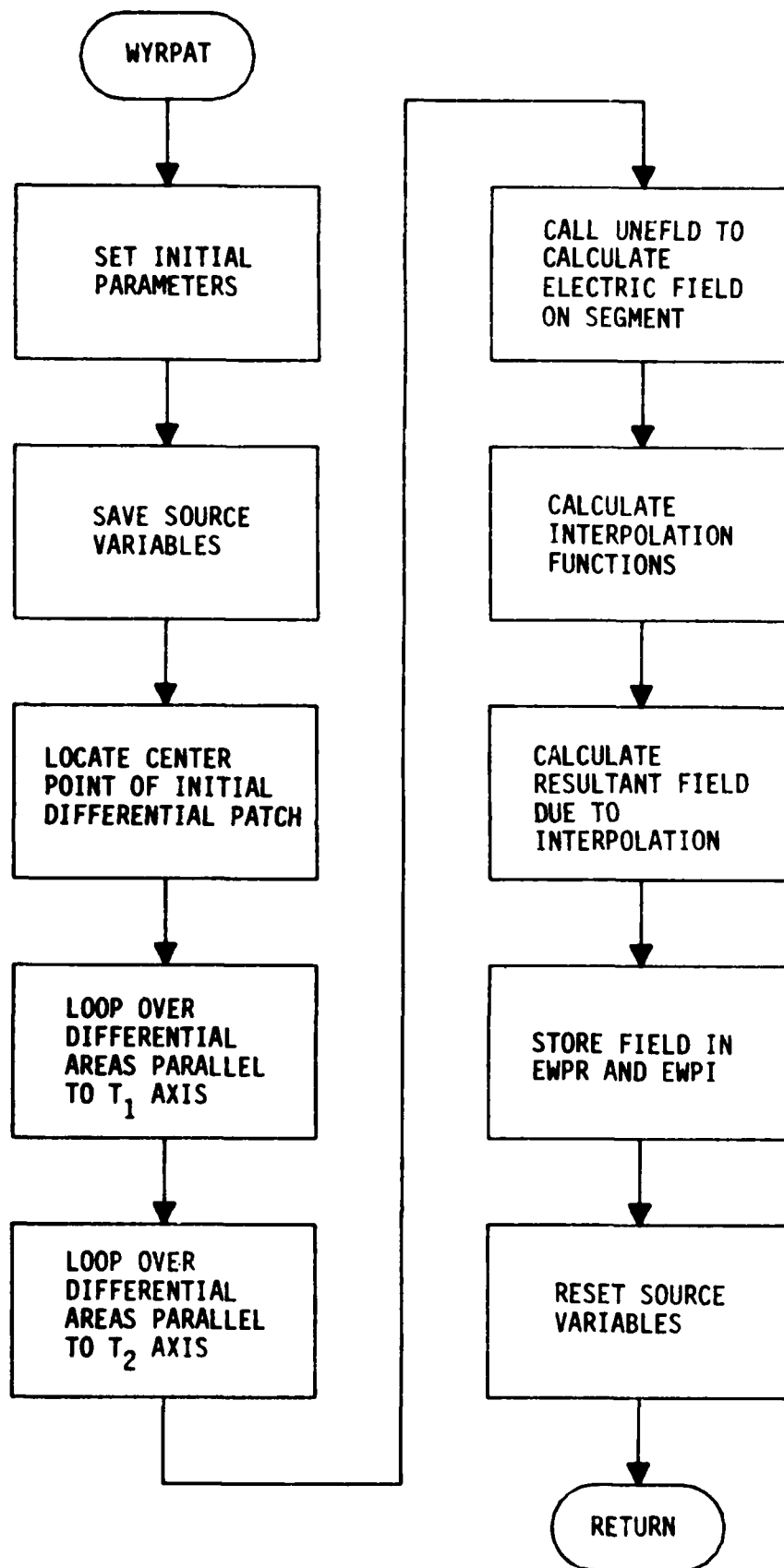
STATOT

UNEFLD

WLKBACK

WYRPAT

(MOM)



1. NAME: XYZFLD (GTD)
2. PURPOSE: To convert the theta and phi components of the electric field into x, y, z components for the electric or magnetic field. The fields from unique scattering interactions are accumulated in common block FLDXYZ.
3. METHOD: The theta and phi components of the electric field are sent as formal parameters to this subroutine. If magnetic fields were requested, they are defined as:

$$H_{\theta} = \frac{-1}{\eta} E_{\phi}$$

$$H_{\phi} = \frac{1}{\eta} E_{\theta}$$

in theta and phi components. Eta (η) is the intrinsic impedance of free space. The theta and phi components of the electric field are shown in figure 1.

Vector algebra is used to compute the x, y, z components of the field from its theta and phi components. The x, y, z components are shown in figure 2. These components are then accumulated in common block FLDXYZ.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
AP	Phi component of either E- or H-field
AT	Theta component of either E- or H-field
D	Observation direction
EP	Phi component of E-field
ET	Theta component of E-field
FX	X component of field
FY	Y component of field
FZ	Z component of field
IEH	Indicator for field type requested. If IEH = 0, magnetic H-field wanted. If IEH = 1, the electric E-field was requested

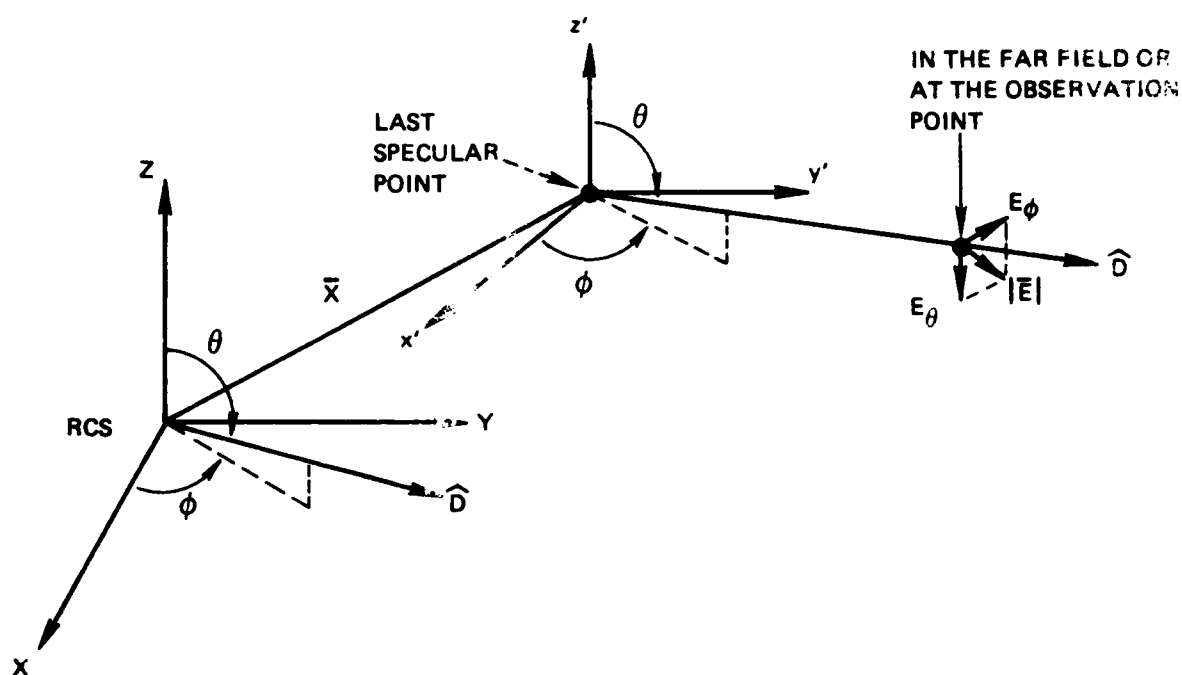


Figure 1. Theta and Phi Components of Electric Field

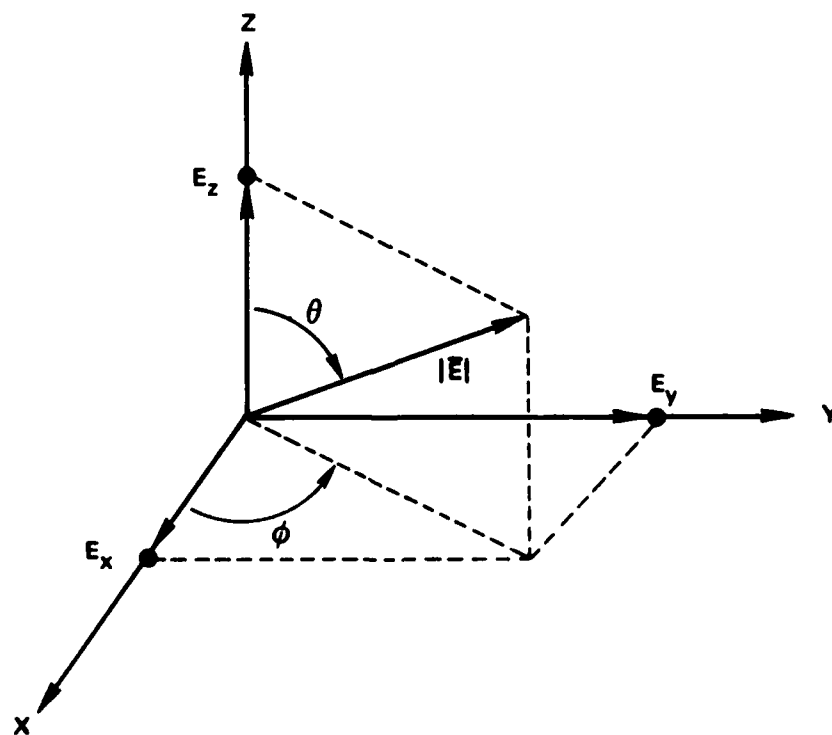


Figure 2. The X, Y, Z Components of the Field

XYZFLD (GTD)

P Phi angle of observation direction
 T Theta angle of observation direction

5. I/O VARIABLES:

A. INPUT	LOCATION
D	F.P.
EP	F.P.
ET	F.P.
FX	/FLDXYZ/
FY	/FLDXYZ/
FZ	/FLDXYZ/
IEH	/EHFLD/
B. OUTPUT	LOCATION
FX	/FLDXYZ/
FY	/FLDXYZ/
FZ	/FLDXYZ/

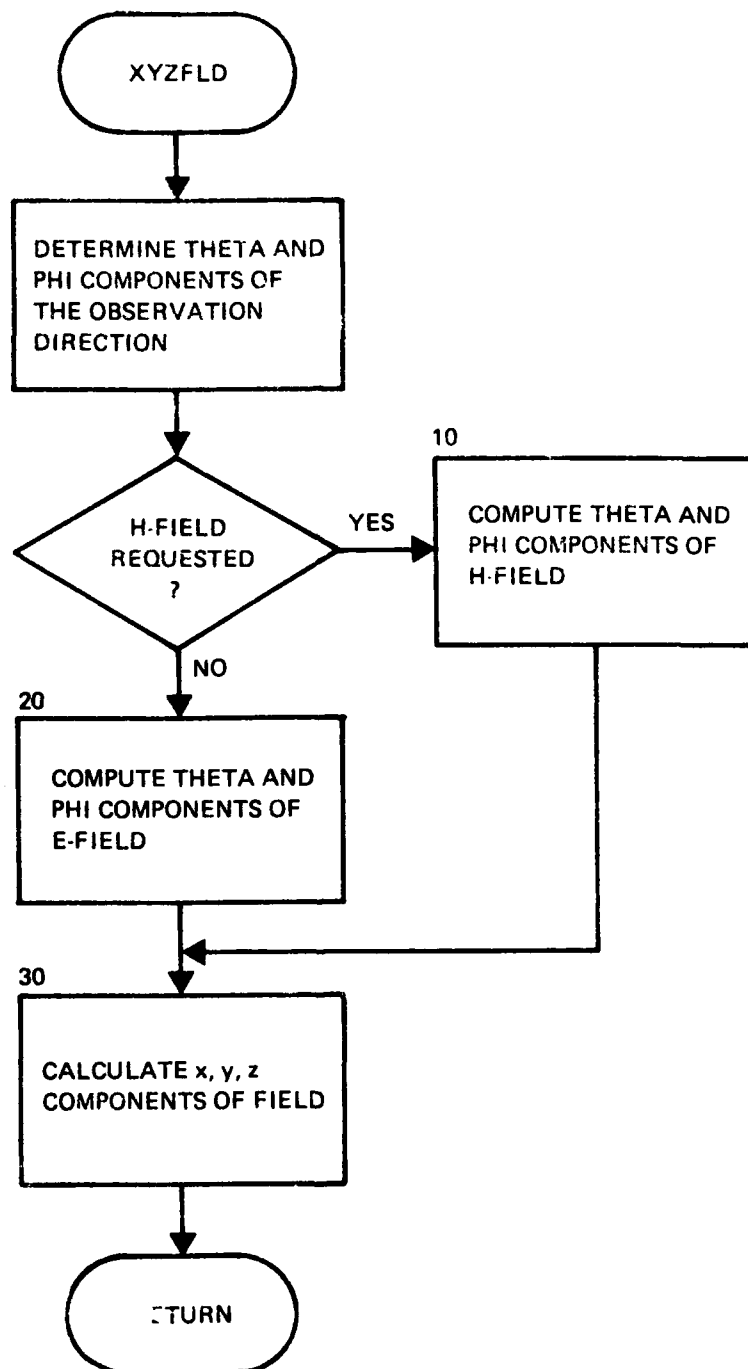
6. CALLING ROUTINES:

DIFPLT	REFCAP
DPLRCL	RPLDPL
DPLRPL	RPLRPL
ENDIF	RPLSCL
INCFLD	SCLRPL
RCLDPL	SCTCYL

7. CALLED ROUTINE:

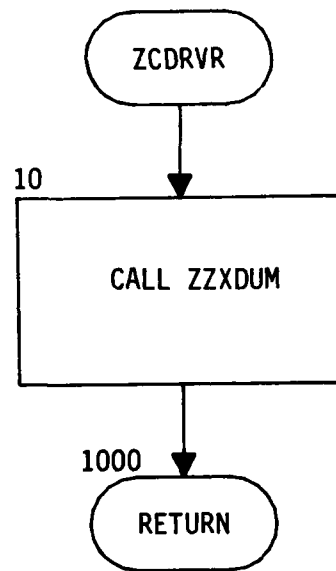
BTAN2

XYZFLD (GTD)



1. NAME: ZCDVR (MOM)
2. PURPOSE: Routine to interface the user ZCODE subroutines with the GEMACS program.
3. METHOD: The subroutine number requested by the user is called by this routine.
4. INTERNAL VARIABLES:
NONE
5. I/O VARIABLES:
NONE
6. CALLING ROUTINE:
TSKXQT
7. CALLED ROUTINES:
ASSIGN
STATIN
STATOT
WLKBCK
ZZXDUM

ZCDVR (MOM)



1. NAME: ZGTDV (GTD)
2. PURPOSE: To interface the GTD physics routines with the three physics drivers: EXCDV, FLDDV and ZIJDV.
3. METHOD: ZGTDV loops over source and observation points and fills the matrix CM(J,I) with the field at observation location I due to the unit source at source position J. The fields which are calculated in ZGTDV are due to the GTD interactions set by interaction array KJ. Method of moments interactions are computed in the MOM module.

The definitions of source and observation points are related to the type of problem as specified by ITYPE:

<u>ITYPE</u>	<u>PROBLEM</u>	<u>SOURCE POINTS</u>	<u>OBSERVATION POINTS</u>
1.	Interaction matrix (ZGEN)	Wire segment tangential currents or patch surface current densities	Wire segments or patch surfaces
2.	Excitation vector (ESRC)	Three vector components of electric field source as specified on ESRC card	Wire segments or patch surfaces
3.	Scattered Field (EFIELD)	Wire segment tangential current or patch surface current densities	Field points as in EFIELD command
4.	Incident Field (EFIELD)	Three vector components of all electric field sources contributing to solution vector	Field points as specified in EFIELD command

It is not necessary that the interaction matrix stored in CM represent the entire physics problem, nor that it be square. The JSRC1, JSRC2, IOBS1, IOBS2 indices reference the source and observation point limits for this call to ZGTDV, with the interaction between JSRC1 source and IOBS1 observation point stored in CM(1,1), etc.

ZGTDV has two main loops, an outer loop over source points and an inner loop over observation points. For geometry object source or field points, data are obtained from /AMPZIJ/ after a call to SEJCON. Otherwise data are obtained from subroutine GETFLD.

The number of calls to GTDDV is then computed for this source-observation point pair. Normally, there is only one call. However, if the source is a wire segment for which the source-observation

separation distance is less than RAPPX wavelengths, three calls are made to GTDDRV, one each for pulse, sine, and cosine components of the wire segment basis function.

GTDDRV returns the rectangular components of the field vector at the observation point. These are transformed into the tangential components required at the observation point:

<u>OBSERVATION POINT TYPE</u>	<u>FIELD TYPE</u>	<u>TANGENTIAL COMPONENTS</u>
Wire Segment	\bar{E}	1 - Wire Axis
Patch	\bar{H}	2 - Patch surface currents
Far Field	\bar{E}	2 - E_θ, E_ϕ
Near Field	\bar{E}	3 - E_r, E_θ, E_ϕ depends on E_x, E_y, E_z coordinates on EFIELD card

The interaction matrix is filled in one of two ways. The tangential field values are added to the present contents of CM if there has been only one call to GTDDRV. This is called direct fill. If, however, there were three calls to GTDDRV, subroutines INTPLT and JNCSUM are called in order to allocate the tangential field among the three or more basis functions which span the source wire segment. Wire segments connected to ground or plates are treated by the method of images. Direct interaction between a wire segment connected to a patch and the patch to which it is connected is deferred to the MOM module.

Before returning, ZGTD RV makes an entry into the shadowing matrix for ITYPE = 1 if the observation point cannot be seen by the source point. The entry is a packed word. The source point SEGTLB segment number is placed in the left half of the word. The observation point SEGTLB segment number is placed in the right half of the word. The shadowing matrix is used by ZIJSET (MOM) so that direct MOM interactions will not be added into the interaction matrix for shadowed source-observation paths.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
CM	Complex interaction matrix filled by ZGTD RV
CURRENT	Complex source excitation value

ZGTDRV (GTD)

DT	Difference in time from the last call to TICHEK
EHR, EHI	Real and imaginary parts of tangential E- or H-field
EHT	Complex array of tangential field components
FP1, FP2, FP3	Coordinates (near field) or θ - ϕ direction (far field) of observation point
FREQ	Internal variable equal to source frequency in megahertz
FSIGN	Positive or negative, depending on whether tangential fields are to be added to or subtracted from CM
FT	Array of interpolated tangential fields (complex)
FX, FY, FZ	The x,y,z components of the field
I	Observation loop index
IBSCER	Flag indicating if an error occurred in GTDDRV
IEH	Field type indicator: 1 = E-field, 0 = H-field
IFDTYP	Flag indicating near field (1) or far field (0)
II	Segment number of geometry observation point
IOBS	Column of CM in which interaction is stored
IOBS1	Pointer to first observation point for this call to ZGTDRV
IOBS2	Pointer to last observation point for this call to ZGTDRV
ISC	Internal variable indicating source type for GTDDRV call
ISCTYP	Source type indicator

ZGTDRV (GTD)

ISDNFL	Flag indicating that source is shadowed from observation point
ISG	Flag indicating source (-1) or observation (1) segment for SEJCON call
ISHADW	Shadowing array
ISHWRD	Packed word of shadowed source-observation pair
ITYP	Internal variable indicating field source point for call to GETFLD
ITYPE	Interaction problem type
IX	Internal parameter equal to I
J	Source loop index
JCOL	Internal variable equal to NCOL
JJ	Segment number of geometry source point
JROW	Internal variable equal to NROW
JSRC	Row of CM in which interaction is stored
JSRC1	Pointer to first source point for this call to ZGTDRV
JSRC2	Pointer to last source point for this call to ZGTDRV
JX	Internal parameter equal to J
KJ	Array of GTD interactions specified for this call to ZGTDRV
KPR	Internal variable equal to IOBS for call to JNCSUM
LSRCFL	Flag indicating if source has changed since last call to GTDDRV
M	Index over tangential field loop
N	GTDDRV call number

ZGTDREV (GTD)

NAMGEO	User-assigned name of geometry data set
NCALL	Total number of GTDDRV calls to compute a source-observation pair interaction
NCOL	Number of columns in CM
NROW	Number of rows in CM
NSHAD	Pointer to last entry in shadowing matrix
NTANF	Number of tangent vectors for an observation point
NTANS	Number of tangent vectors for a source point
R	Source-observation point separation distance (in meters)
RAPPRX	Minimum separation distance in wavelengths in order to take advantage of far-field approximation.
RSQ	R^2
SP1,SP2	Source parameters passed to GTDDRV
TLEFT	Execution time remaining
TNOW	Current time
TSTART	Execution time at beginning of ZGTDREV
TXF,TYF,TZF	Array of observation target unit vectors
TXS,TYS,TZS	Array of source target unit vectors
XNS,YNS,ZNS	Patch normal unit vector
XS,YS,ZS	Source point coordinates

5. I/O VARIABLES:

A. INPUT	LOCATION
B	/AMPZIJ/
CABI	/AMPZIJ/

ZGDRV (GTD)

CABJ	/AMPZIJ/
CM	F.P.
DBGPRT	/ADEBUG/
FRQMHZ	/AMPZIJ/
IOBS1	F.P.
IOBS2	F.P.
IP217	/GEODAT/
ISHADW	F.P.
ISOFF	/ADEBUG/
ISON	/ADEBUG/
ITYPE	F.P.
JC01	/AMPZIJ/
JC02	/AMPZIJ/
JIX	/JUNCOM/
JIZ	/JUNCOM/
JOX	/JUNCOM/
JOZ	/JUNCOM/
JSRC1	F.P.
JSRC2	F.P.
KJ	F.P.
LUPRNT	/ADEBUG/
MAXCON	/JUNCOM/
NAMGEO	F.P.
NCIX	/JUNCOM/
NCIZ	/JUNCOM/

ZGTDRV (GTD)

NCOL	F.P.
NCOX	/JUNCOM/
NCOZ	/JUNCOM/
NROW	F.P.
NSHAD	F.P.
NWIRE	/SEGMNT/
S	/AMPZIJ/
SABI	/AMPZIJ/
SABJ	/AMPZIJ/
SALPI	/AMPZIJ/
SALPJ	/AMPZIJ/
TIMTGO	SYSFIL
T1XI,T1YI,T1ZI	/AMPZIJ/
T2XI,T2YI,T2ZI	/AMPZIJ/
T1XJ,T1YJ,T1ZJ	/AMPZIJ/
T2XJ,T2YJ,T2ZJ	/AMPZIJ/
WAVLGH	/AMPZIJ/
XI,YI,ZI	/AMPZIJ/
XJ,YJ,ZJ	/AMPZIJ/
ZERO	/ADEBUG/
B. OUTPUT	LOCATION
CM	F.P.
IERRF	/ADEBUG/
ISHADW	F.P.
NSHAD	F.P.

6. CALLING ROUTINES:

EXCDRV

FLDDRV

ZIJDRV

7. CALLED ROUTINES:

ASSIGN

ERROR

GETFLD

GTDDRV

INTPLT

JNCSUM

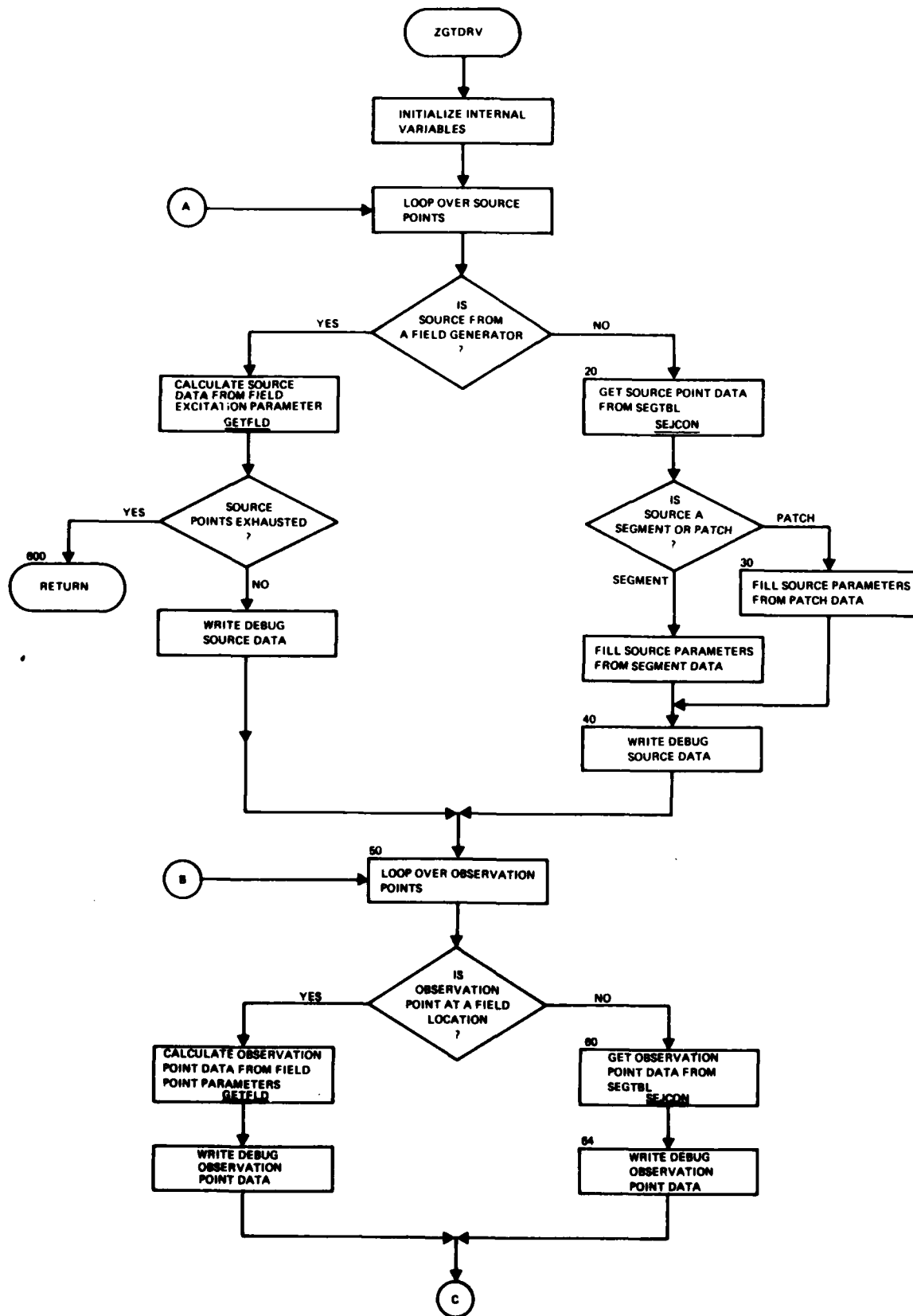
SEJCON

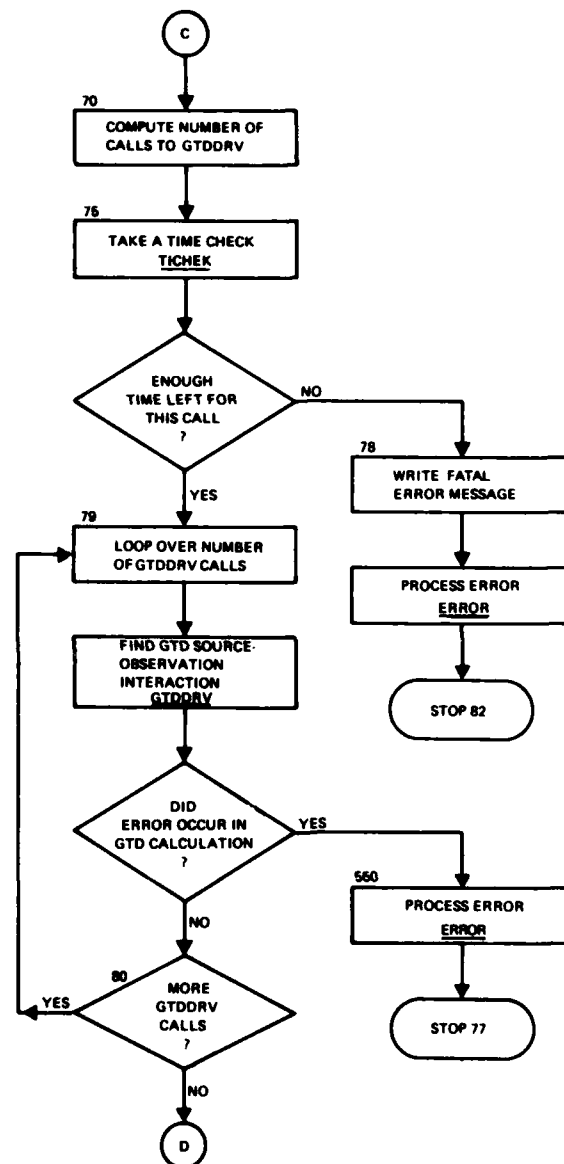
STATIN

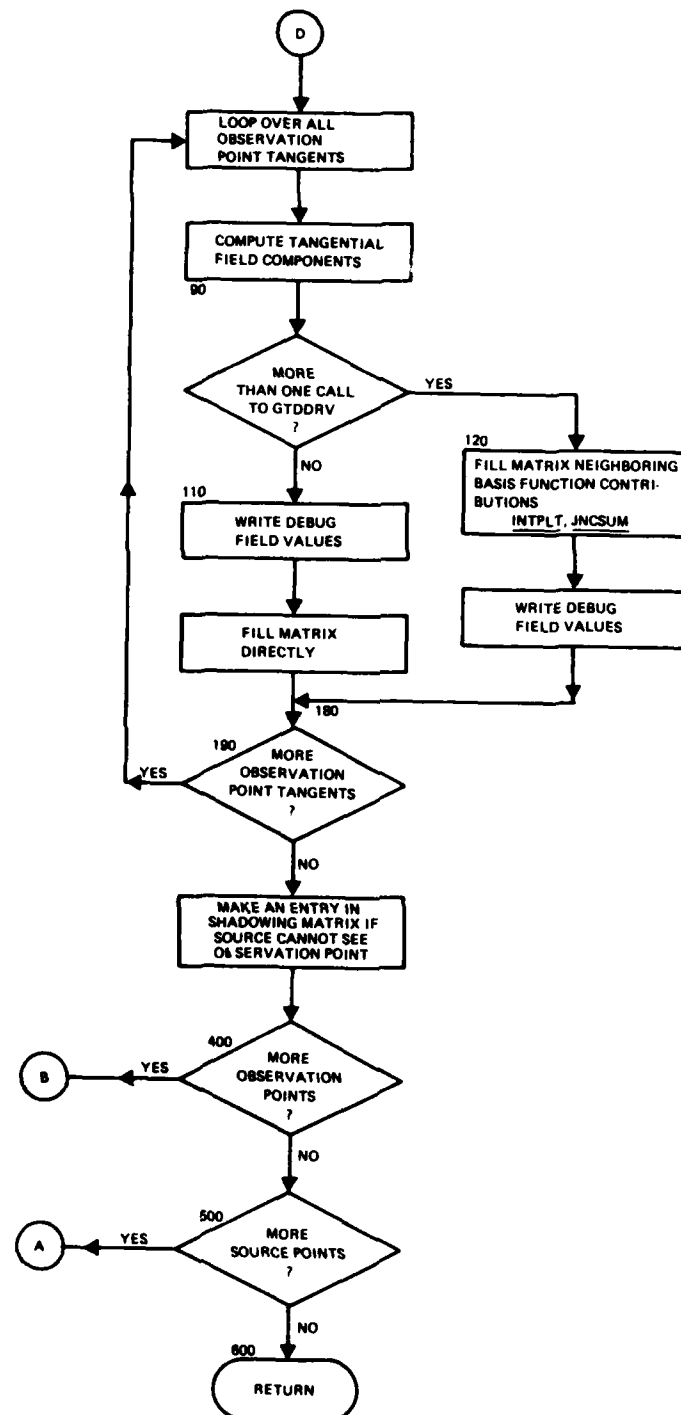
STATOT

TICHEK

WLBCK







1. NAME: ZIJDRV (GTD)
2. PURPOSE: Interface the GTD physics routines with the GEMACS interaction matrix generator and task execution processor.
3. METHOD: The interface parameters for the interaction matrix generator are passed through the ARGCOM array FLTARG. The arguments are:

INTARG (1) Keyword name for sine + cosine + pulse expansion

INTARG (2) Location of geometry storage area in NDATBL

INTARG (3) Pointer to frequency (MHz)

INTARG (4) Pointer to conductivity

INTARG (5) Pointer to relative permittivity

INTARG (6) Index to load data in NDATBL

INTARG (7) Index to interaction matrix in NDATBL

All of the required input parameters for calling subroutine ZGTDRV are computed and passed through the calling statement and common variables. If there is not enough room in the data set specified for the interaction matrix, the matrix is redefined on a peripheral file with the proper dimensions.

The results of ZIJDRV (GTD) depend on the physics interactions specified by the user on the SETINT command. If no GTD interactions were requested, ZIJDRV returns without generating a matrix. Otherwise ZIJDRV generates the GTD portion of the interaction matrix for the geometry specified in INTARG(2). If there are no MOM objects in the geometry, the routine prints a warning message and returns. If GTD interactions are requested, but there are no GTD objects in the geometry, a zero interaction matrix is created.

If MOM interactions were requested, a geometry shadowing matrix is created, consisting of segment pairs packed into single words. A segment pair is entered if the source segment cannot see the observation segment directly. ZIJDRV (MOM) uses this matrix to avoid calculating MOM interactions for shadowed pairs. The interaction matrix is sorted prior to exit and contains no duplicate entries. Note that a patch is represented by its segment number, not its interaction matrix row number.

The calculation of GTD interactions with a ground plane are not allowed. The conductivity and permittivity parameters are checked, and if they are not equal to NOPCOD an error message is generated and execution terminated.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
EPSR	Relative dielectric constant of ground plane
I	Loop index over number of basis functions and columns of interaction matrix in TEMP
I1	First column of interaction matrix in TEMP
IBASIS	Pointer to basis function pointer in KWBASE
IBITS	Attribute word for interaction or shadowing matrix
ICOL2	Number of columns thus far computed for the interaction matrix
II	Pointer to last entry in interaction array
IJZLOC	Index to location of interaction matrix in NDATBL
IOBS1	First observation point number for this call to ZGTDRV
IOBS2	Last observation point number for this call to ZGTDRV
IPERF	A flag indicating a perfectly conducting ground plane
ISAVE	Saved value of ISHADW
ISHADW	Shadowing matrix
ISTART	First column of interaction matrix in call to ZGTDRV
ISTOP	Last column of interaction matrix in call to ZGTDRV
ITYPE	GTD interaction type
IYRLOC	Index to geometry data set in NDATBL
J	Loop index over number of columns of interaction matrix in TEMP

K	Index over interaction matrix rows
KALL	Counter indicating the number of calls to ZGTDV
KCOLS	Number of columns of interaction matrix which will fit into core
KJ	GTD interaction array
KSYP	Image flag
KWBASE	Array of pointers to basis function keyword numbers
KWIDX	Keyword index of user-specified basis function
LOCGE0	Location of geometry data set index in INTARG
LOCZIJ	First word address of interaction matrix in TEMP
M	Inner loop index in shadowing matrix sort
N	Loop index over shadowing matrix entries
N1	N-1
NAMESH	Name of shadowing matrix
NAMEXP	Name of expansion function for wire currents
NAMEYR	User-assigned name of geometry data set
NAMEZ	User-assigned name of interaction matrix
NAMGE0	Pointer to default name of geometry data set in NCODES
NAMSHD	Right-most three characters of shadowing matrix = "SHD"
NAMYRS	Internal variable equal to NAMEYR
NAMZIJ	Pointer to default name of interaction matrix in NCODES

ZIJDRV (GTD)

NC	Number of interaction matrix columns to be generated in a call to ZGTDRV
NCOL	Number of interaction matrix columns to be zeroed
NCOLS	Actual number of columns in full interaction matrix
NDX	Pointer to basis function name in NCODES
NDXARG	Pointer to INTARG argument
NEED	Additional core needed
NELRW	Number of words per interaction matrix row
NELTTL	Total number of words for block of interaction matrix
NP	Hollerith name of expansion function
NPRSYM	Dimension of symmetry operator
NR	Hollerith name of geometry data set
NROWS	Number of basis functions used to expand solution
NROWX	Internal variable equal to NROWS
NS	Hollerith name of load vector
NSHADOW	Number of entries in shadowing matrix
NSHADOW1	Number of shadowing matrix entries minus 1
NSHIFT	Number of bits in three GEMACS format literal characters
NUMBAS	Number of basis functions implemented in MOM formulation
NY	Hollerith name of geometry data set with no MOM objects
NYRSYM	Variable indicating type and degree of symmetry

NZ Hollerith name of interaction matrix data set

RAPPRX Minimum distance in wavelengths for which a pulse basis function approximation can be used

SYMFLG Symmetry flag (logical)

5. I/O VARIABLES:

A. INPUT	LOCATION
CLITE	/AMPZIJ/
DBGPRT	/ADEBUG/
FLTARG	/ARGCOM/
INTARG	/ARGCOM/
IPASS	/ARGCOM/
IP217	/GEODAT/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
KBCPLX	/PARTAB/
KBORDR	/PARTAB/
KBREAL	/PARTAB/
KBSNGL	/PARTAB/
KBZIMP	/PARTAB/
KJGTD	/INTMAT/
KJINT	/INTMAT/
KJMOM	/INTMAT/
KOLCOL	/PARTAB/
KOLLNK	/PARTAB/
KOLNAM	/PARTAB/

ZIJDRV (GTD)

KWNAME	/PARTAB/
LSTSYS	/SYSFIL/
LUPRNT	/ADEBUG/
NAMSEG	/SEGMNT/
NBYTSZ	/ADEBUG/
NCODES	/PARTAB/
NDATBL	/PARTAB/
NPATCH	/SEGMNT/
NOPCOD	/ADEBUG/
NTEMPS	/TEMPO1/
NTFLPT	/ADEBUG/
NTSYMB	/ADEBUG/
NUMGTD	/GTDDAT/
NWIRE	/SEGMNT/
RSTART	/SYSFIL/
TWOPI	/AMPZIJ/
B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
EPSR	/AMPZIJ/
FRQMHZ	/AMPZIJ/
IERRF	/ADEBUG/
IPERF	/AMPZIJ/
KSYP	/AMPZIJ/
LSTSYS	/SYSFIL/
NYRSYM	/SEGMNT/
TEMP	/TEMPO1/

ZIJDRV (GTD)

WAVLGH /AMPZIJ/

WAVNUM /AMPZIJ/

6. CALLING ROUTINE:

TSKXQT

7. CALLED ROUTINES:

ASSIGN

CONVRT

ERROR

GETARG

GETGEO

GETSYM

PRTKJ

PUTSYM

STATIN

STATOT

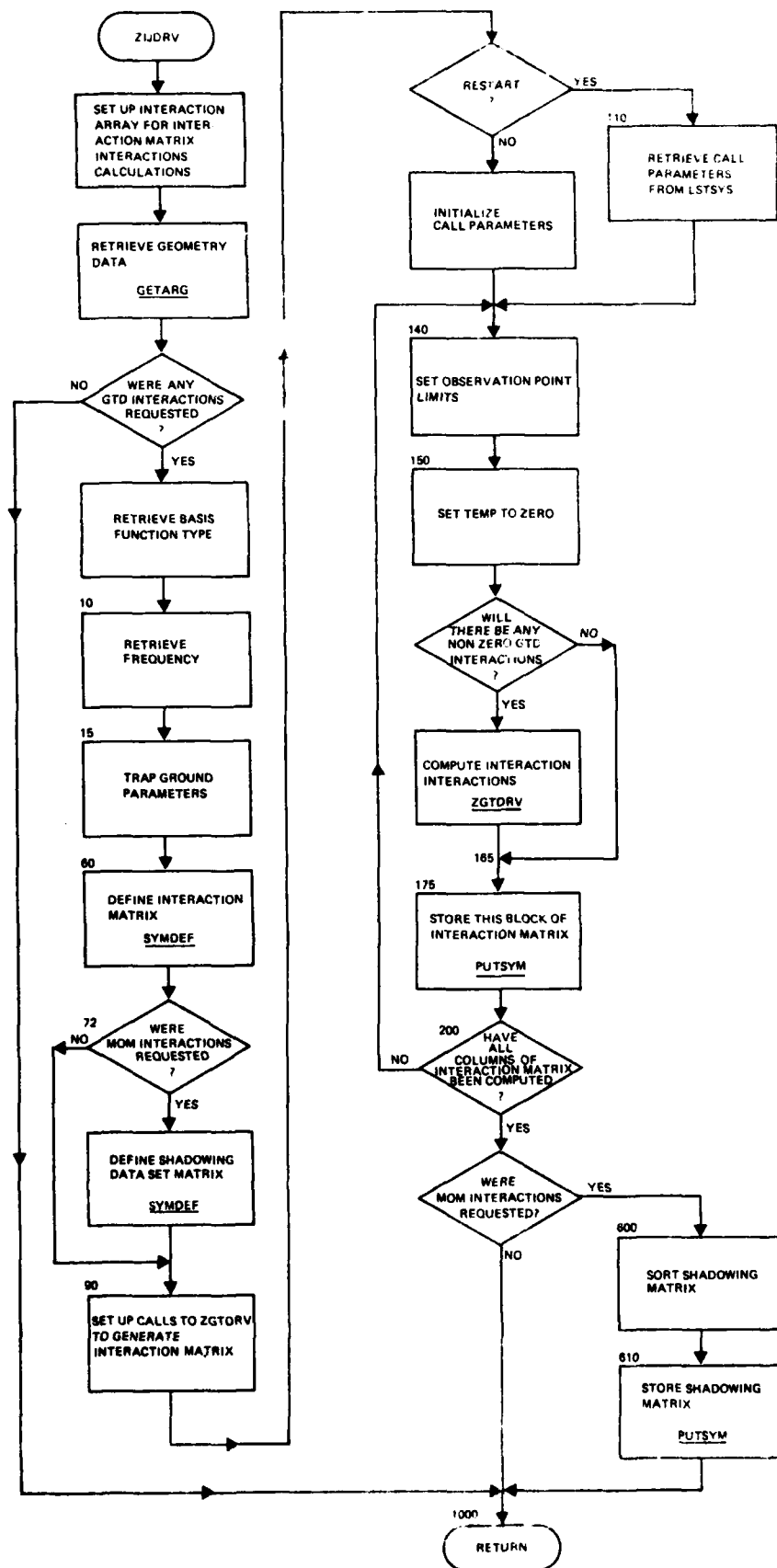
SYMDEF

SYMUPD

SYSCHK

WLKBACK

ZGTDREV



1. NAME: ZIJDRV (MOM)
2. PURPOSE: This subroutine interfaces the interaction matrix generator with the task execution processor.
3. METHOD: The interface parameters for the interaction matrix generator are passed through the ARGCOM array FLTARG. The arguments are:

INTARG (1) Keyword name for sine + cosine + pulse expansion

INTARG (2) Location of geometry storage area in NDATBL

INTARG (3) Pointer to frequency (MHz)

INTARG (4) Pointer to conductivity

INTARG (5) Pointer to relative permittivity

INTARG (6) Index to load data in NDATBL

INTARG (7) Index to interaction matrix in NDATBL

All of the required input parameters for calling subroutine ZIJSET are computed and passed through the calling statement and common variables. If there is not enough room in the data set specified for the interaction matrix, the matrix is redefined on a peripheral file with the proper dimensions.

The results of ZIJDRV (MOM) depend on the physics interactions specified by the user. If no MOM interactions are requested on the SETINT command no calculations are made and the routine returns control to TSKXQT. If MOM interactions are requested but there are no MOM objects in the geometry, a warning message is printed, and no calculations are made. If GTD interactions are requested along with MOM interactions ZIJDRV assumes that the interaction matrix contains the GTD interactions upon entry. ZIJDRV adds the MOM interactions to these values. If no GTD interactions are specified on the SETINT command, ZIJDRV creates a null interaction matrix to which the MOM interactions are added.

If GTD interactions have been specified, a geometry shadowing matrix generated by ZIJDRV is also retrieved and used to avoid calculating direct path MOM interactions between pairs of elements which are shadowed by GTD geometry objects. Otherwise, a null shadowing matrix is created by ZIJDRV, and all MOM interactions are computed.

Load impedances are added to the diagonal elements of the interaction matrix. These values are obtained from a load data set (previously calculated) and specified on the command (INTARG(6)).

It is possible to greatly speed up interaction matrix generation by taking symmetry into account. The following conditions are required:

- (1) No ground plane images
- (2) Symmetry present in geometry
- (3) Symmetry present in loads
- (4) No GTD interactions specified
- (5) No incident fields requested

The interaction matrix calculated by ZIJDRV is stored in a temporary data set. This matrix is premultiplied by the symmetry operator in subroutine SYMMOD and reblocked into proper format by REBLCK. REBLCK takes the symmetry format matrix and stores it in the user-assigned interaction matrix data set. The temporary file is released, and the temporary data set name removed from the symbol table.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
EPSR	Relative dielectric constant of ground plane
I	Loop index over number of basis functions and columns of interaction matrix in TEMP
I1	First column of interaction matrix in TEMP
IBITS	Attribute word for interaction or shadowing matrix
ICOL2	Number of columns thus far computed for the interaction matrix
IFILE	Logical unit of temporary interaction matrix
IJZLOC	Index to location of interaction matrix in NDATBL
ILOAD	Index to load data set in NDATBL
IPERF	A flag indicating a perfectly conducting ground plane

ISHADW	Shadowing matrix
IYRLOC	Index to geometry data set in NDATBL
J	Loop index over number of columns of interaction matrix in TEMP
JCOL2	Last column of interaction matrix in TEMP
K	Index over interaction matrix rows
KALL	Counter indicating the number of calls to ZIJSET
KCOLS	Number of columns of interaction matrix which will fit into core
KSYP	Image flag
KWBASE	Array of pointers to basis function keyword numbers
KWIDX	Keyword index of user-specified basis function
L	Offset pointer used to zero TEMP
LOADSM	A flag indicating load symmetry
LOCCOL	First word address of a column of interaction matrix in TEMP
LOC DIA	First word address of a diagonal of interaction matrix in TEMP
LOC GEO	Location of geometry data set index in INTARG
LOC LOO	First word address of load vector in TEMP
LOC SCR	First word address of scratch area in TEMP
LOC SYM	First word address of symmetry operator in TEMP
LOC ZIJ	First word address of interaction matrix in TEMP
N	Loop index over shadowing matrix entries
NAMESH	Name of shadowing matrix

ZIJDRV (MOM)

NAMEXP	Name of expansion function for wire currents
NAMEYR	User-assigned name of geometry data set
NAMEZ	User-assigned name of interaction matrix
NAMEZ1	Computer generated name of the temporary interaction matrix used when symmetry is used
NAMGEO	Pointer to default name of geometry data set in NCODES
NAMLDS	User-assigned name of load vector
NAMSHD	Right-most three characters of shadowing matrix = "SHD"
NAMYRS	Internal variable equal to NAMEYR
NAMZIJ	Pointer to default name of interaction matrix in NCODES
NC	Number of interaction matrix columns to be generated in a call to ZIJSET
NCL	Number of interaction matrix columns to be zeroed
NCOLS	Actual number of columns in interaction matrix taking into account symmetry
NDX	Pointer to basis function name in NCODES
NEED	Additional core needed
NN	Internal variable equal to I for subroutine call
NP	Hollerith name of expansion function
NPRSYM	Dimension of symmetry operator
NR	Hollerith name of geometry data set
NROWS	Number of basis functions used to expand solution
NRWX2	2*NROWS

NS	Hollerith name of load vector
NSH	Hollerith name of shadowing matrix
NSHAD	Number of entries in shadowing matrix
NSHIFT	Number of bits in three GEMACS format literal characters
NUMBAS	Number of basis functions implemented in MOM formulation
NY	Hollerith name of geometry data set with no MOM objects
NYRSYM	Variable indicating type and degree of symmetry
NZ	Hollerith name of interaction matrix data set
RAPPRX	Minimum distance in wavelengths for which a pulse basis function approximation can be used
RPPRX	RAPPRX in meters
SIGMA	Ground plane conductivity in mhos/m
SYMFLG	Symmetry flag (logical)
ZRATI	Normalized normal incidence impedance of ground plane (unitless)

$$\left[\left(\frac{\epsilon_1}{\epsilon_0} \right) \left(1 - \frac{j\sigma}{\omega\epsilon_1} \right) \right]^{-1/2}$$

5. I/Q VARIABLES:

A.	INPUT	LOCATION
	CHKWRT	/SYSFIL/
	CLITE	/AMPZIJ/
	DBGPRT	/ADEBUG/
	FJ	/AMPZIJ/

ZIJDV (MOM)

FLTARG	/ARGCOM/
INTARG	/ARGCOM/
IPASS	/ARGCOM/
ISOFF	/ADEBUG/
ISON	/ADEBUG/
KBCPLX	/PARTAB/
KBORDR	/PARTAB/
KBREAL	/PARTAB/
KBSNGL	/PARTAB/
KBZIMP	/PARTAB/
KJFLD	/INTMAT/
KJGTD	/INTMAT/
KJMOM	/INTMAT/
KOLCOL	/PARTAB/
KOLLNK	/PARTAB/
KOLLOC	/PARTAB/
KOLNAM	/PARTAB/
KWNAME	/PARTAB/
LSTSYS	/SYSFIL/
LUPRNT	/ADEBUG/
NAMSEG	/SEGMNT/
NBYTSZ	/ADEBUG/
NCODES	/PARTAB/
NDATBL	/PARTAB/
NOPCOD	/ADEBUG/

NPATCH	/SEGMNT/
NPDATA	/PARTAB/
NTEMPS	/TEMP01/
NTFLPT	/ADEBUG/
NTSYMB	/ADEBUG/
NUMSEG	/SEGMNT/
NWIRE	/SEGMNT/
RSTART	/SYSFIL/
TPCEPI	/AMPZIJ/
TWOPI	/AMPZIJ/
ZERO	/ADEBUG/
B. OUTPUT	LOCATION
CHKWRT	/SYSFIL/
EPSR	/AMPZIJ/
FRQMHZ	/AMPZIJ/
IERRF	/ADEBUG/
IPERF	/AMPZIJ/
KSYP	/AMPZIJ/
LSTSYS	/SYSFIL/
NDATBL	/PARTAB/
NYRSYM	/SEGMNT/
SIGMA	/AMPZIJ/
TEMP	/TEMP01/
WAVLGH	/AMPZIJ/
WAVNUM	/AMPZIJ/
ZRATI	/AMPZIJ/

6. CALLING ROUTINE:

TSKXQT

7. CALLED ROUTINES:

ASSIGN

CLSFIL

CNTGND

CONVRT

ERROR

GETARG

GETGEO

GETSYM

LODSYM

PRTKJ

PUTSYM

REBLCK

SMATRX

STATIN

STATOT

SYMDEF

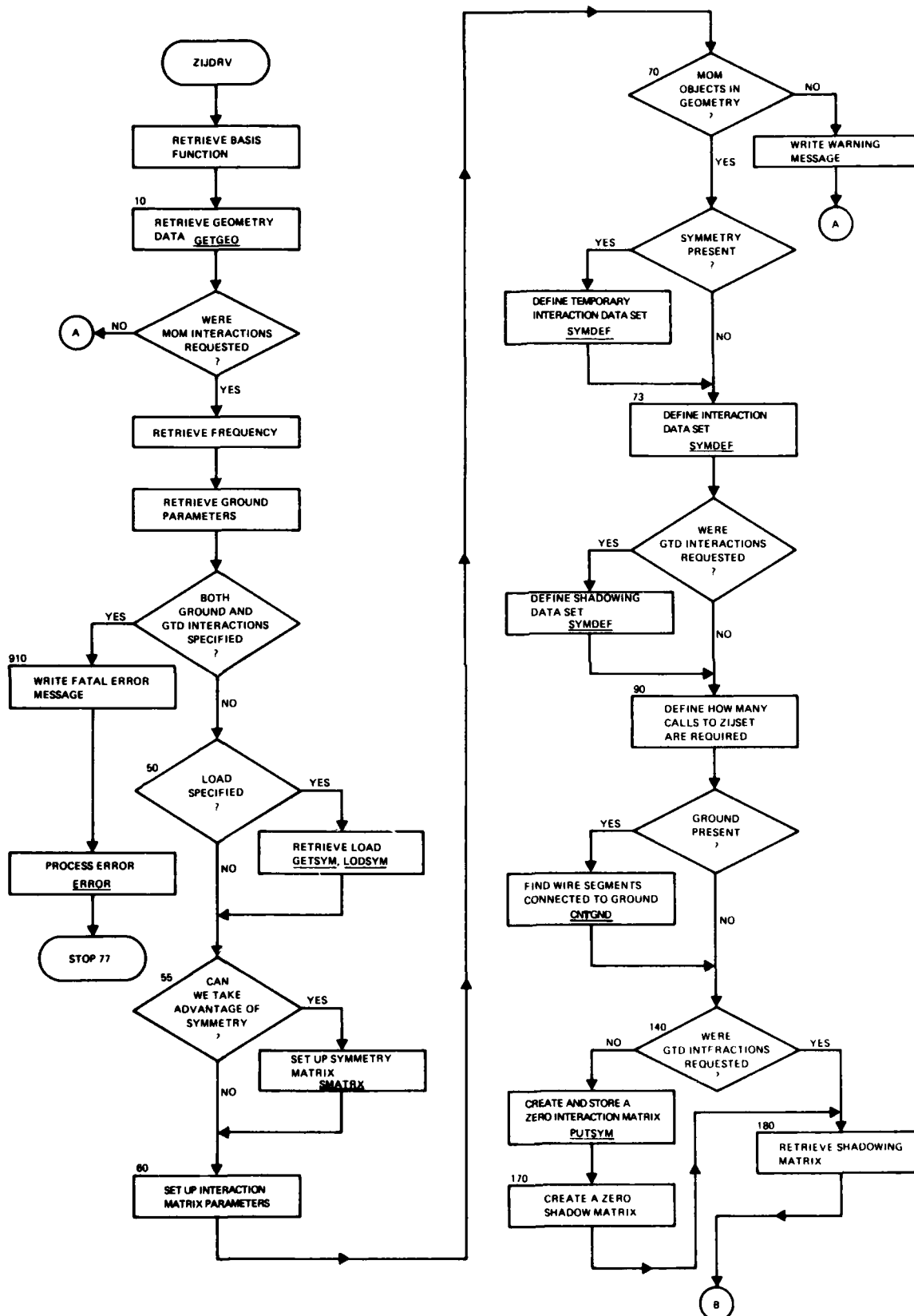
SYMMOD

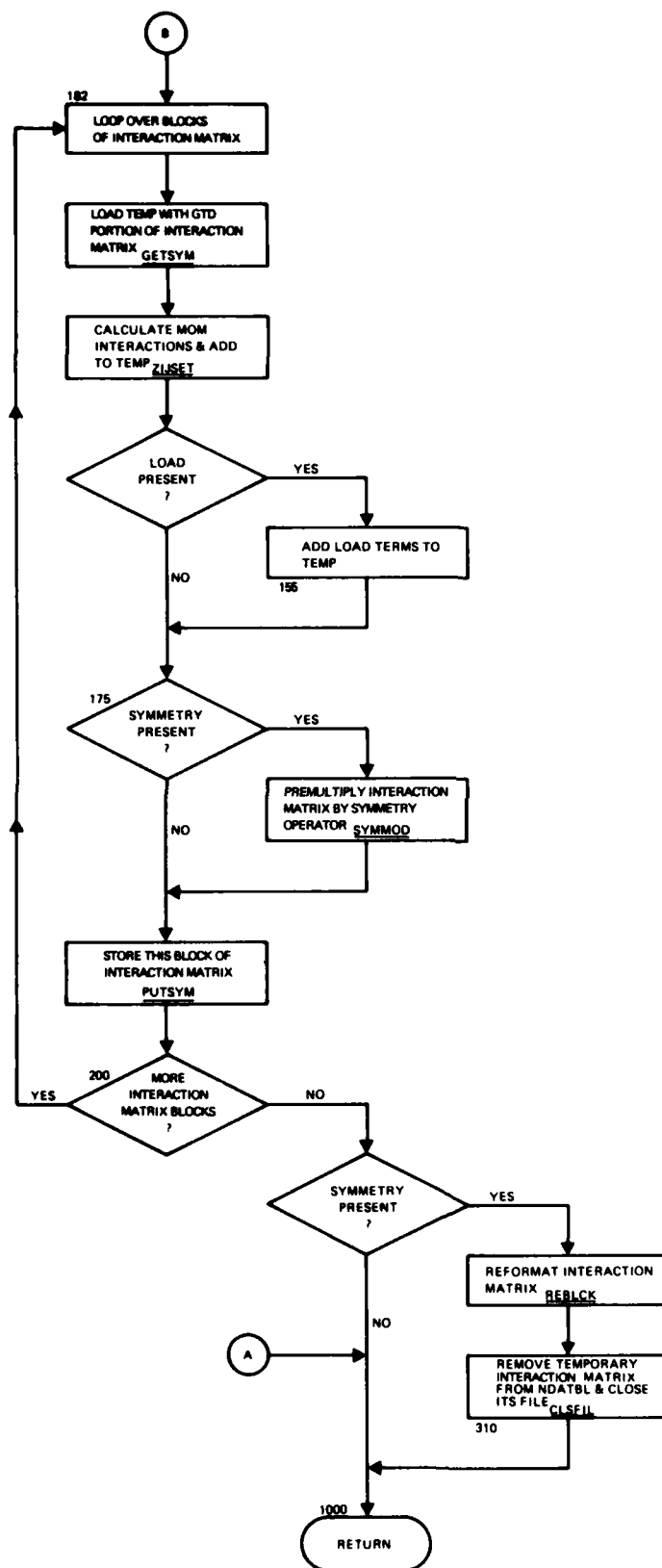
SYMUPD

SYSCHK

WLKBCK

ZIJSET





1. NAME: ZIJSET (MOM)
2. PURPOSE: Sets up the complex interaction matrix in the array CM for method of moments interactions.
3. METHOD: The matrix elements representing the tangential component of the electric field at the center of segment i due to a unit current at the center of segment j and zero current at the center of all other segments (G_{ij}) are stored in the array CM (array TEMP). When sinusoidal interpolation is used, the current basis function for segment j extends onto segments connected to either end of j although it is zero at the center of these segments. Rather than integrating the entire support of the basis function for segment j in one operation, the code integrates the extent of segment j only, while integrating three functions simultaneously: the center of the basis function for segment j, and the ends of the basis functions for the adjacent segments. The resulting matrix values represent contributions to G_{ij} and other elements G_{ik} , where k is any segment connected to segment j.

For a wire segment source point and a wire segment observation point, the electric field is computed by routine NTRPLT, which assumes that the source segment is located at the origin of a cylindrical coordinate system. Thus, the segments i and j have their centers at

$$\vec{r}_i = x_i \hat{x} + y_i \hat{y} + z_i \hat{z}$$

$$\vec{r}_j = x_j \hat{x} + y_j \hat{y} + z_j \hat{z}$$

and the unit vectors in the direction of the segments are

$$\hat{i} = i_x \hat{x} + i_y \hat{y} + i_z \hat{z}$$

$$\hat{j} = j_x \hat{x} + j_y \hat{y} + j_z \hat{z}$$

A cylindrical coordinate system (ρ' , ϕ' , z') is defined with origin at r_j and with $\hat{z}' = \hat{j}$. The cylindrical coordinates of segment i in this coordinate system are computed as:

$$\bar{z}_{ij} = [(\bar{r}_i - \bar{r}_j) \cdot \hat{j}] \hat{j}$$

$$\bar{\rho}_{ij} = (\bar{r}_i - \bar{r}_j) - \bar{z}_{ij}$$

The coordinates are supplied by routine SEJCON to routine NTRPLT, which returns the contribution to the matrix elements stored in array CM. If a ground plane is present, NTRPLT is also called for the image of segment j and returns the field of the image segment modified by the reflection coefficient as computed in ZIJSET. The field of the image of segment j is added to the same matrix elements as the field of segment j by routine JNCSUM.

When the source and observation points are separated by at least RKH meters, a dipole field approximation is used. The electric field at the observation point shown in figure 1 is given by:

$$\bar{E}_R(\bar{R}) = \frac{I_o \Delta \eta}{2\pi R^2} \left[1 - \frac{j}{kR} \right] e^{-jkR} \cos \theta \hat{R}$$

$$\bar{E}_\theta(\bar{R}) = \frac{I_o \Delta \eta}{4\pi R^2} \left[1 + j(kR - \frac{1}{kR}) \right] e^{-jkR} \sin \theta \hat{\theta}$$

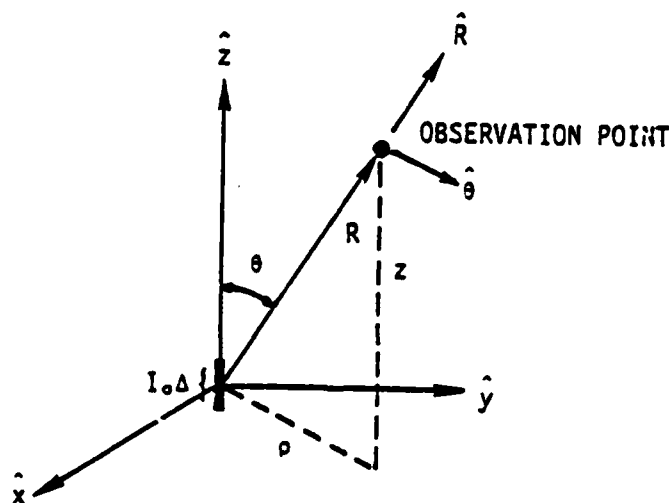


Figure 1. Geometry for Electric Field Calculation

The interaction terms are stored directly in the array CM.

For a wire source and a patch observation point, the magnetic field is evaluated by subroutine NTRPLT in a cylindrical coordinate system with the wire source at the origin. When a ground is present, NTRPLT is again called to calculate the field of the image of the source segment, which is multiplied by the reflection coefficient, and added to the direct field.

For a patch source, the tangential electric fields (wire observation point) and magnetic fields (patch observation point) are computed by a call to NTRPLU. When the patch source is connected to the observation segment, the ICON flag is nonzero. This will result in a subsequent call to WYRPAT. In this subroutine, a special interpolation function is used for currents on the patches, and the fields are calculated by a more careful integration. The interaction at a patch observation point accounts for two columns in the CM array. This is due to the two unit currents \hat{t}_1 and \hat{t}_2 . When the source and observation patches coincide, a contribution of $\pm 1/2$ from the second term of equation 57 and the negative of equation 58 of the Engineering Manual are added to the CM array. If a ground plane is present, the field due to the patch image is computed. The matrix contribution of the image is added to the same matrix element as the source patch.

In all cases, when GTD interactions have been requested the shadowing matrix ISHADW is checked for source-observation path visibility. If the path is obstructed by a GTD geometry object, the MOM interaction is omitted.

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
A0	Cos θ for dipole approximation
A1	Sin θ for dipole approximation
C1	$\exp(-jkr)$
CABI	Unit vector of observation segment in x direction
CABJ	Unit vector of source segment in x direction
CM	Complex array for storing interaction matrix
CTH	Cosine of angle between the normal to ground and the reflecting ray from segment j to i

CURDIP	Magnitude of current used in dipole approximation
DIJ	Dot product of source and observation segment unit tangent vectors
DIK	Wire length from center of segment j to center of following segment for interpolation
DIL	Wire length from center of segment j to center of preceding segment for interpolation
DIR	Dot product of observation segment unit vector and source radius unit vector
DT	Difference in time from the last call by TICHECK
EP	The complex ρ component of electric field for the dipole approximation
EPI,EPR	The imaginary and real parts of ρ component of the electric field for the dipole approximation
ER	The complex radial component of the electric field for the dipole approximation
ET	The complex θ component of the electric field for the dipole approximation
ETA	$\sqrt{\mu/\epsilon} \cong 376.7272$ ohms
ETI,ETR	Array containing imaginary and real parts of the contributions to the matrix elements
EWPI,EWPR	Array containing imaginary and real parts of the contributions to the matrix elements of a wire connected to a patch source.
EZ	The complex z component of the electric field for the dipole approximation
EZI, EZR	The imaginary and real parts of the z component of the electric field for the dipole approximation

FJ	$\sqrt{-1}$
FSIGN	One for end 2 of segment connected to a surface, -1 for end 1 of segment connected to a surface
FZI	Variable set to zero in calling GNDREF when using cylindrical coordinate system
FZR	Variable set to zero in calling GNDREF when using cylindrical coordinate system
I	Global column counter, used separately for wires and for patches
IALT	Flag indicating that the wire observation point is connected to a source patch
IC01	Connection data for end 1 of observation segment
IC02	Connection data for end 2 of observation segment
ICON	A flag indicating wire connected to a patch
IERRF	Error flag
IJ	(i - j) for wires, odd/even flag for patches
IK	1 for wires, odd/even flag for patches
IP	DO loop index for actual source segment (=1) and if ground is present its image (=2)
IPATCH	A flag indicating a patch observation point
IPERF	Flag indicating a perfect ground
IPR	Local column counter
IPSEG	Index for observation segment with wire source
ISHADW	Array of packed words of observation-source segment numbers indicating the source-observation path is obstructed by a GTD geometry object

ZIJSET (MOM)

ISVP	Number of columns in interaction matrix for patch observation points already filled from previous calls to ZIJSET
ISVW	Number of columns of interaction matrix for wire observation points already filled from previous calls to ZIJSET
ITYP	Flag indicating whether this segment is a source segment (-1) or an observation segment (+1)
IWIRE	A flag indicating a wire source segment and that a local cylindrical coordinate system is used
J	DO loop variable determining row of CM being filled
J1, J2	Row numbers for matrix elements corresponding to the source current components 1 and 2
JBias3	An integer to bias connection data to indicate a wire segment is connected to a patch
JCO1	Index of segment connected to end 1 of segment j
JCO2	Index of segment connected to end 2 of segment j
JPR	Shadow word for this source-observation pair
JS	An index pointing to location in segment table for a source segment
JSEG	Index for source segment
JSHAD	Pointer into the shadowing matrix
K	Local column counter for patch sources
K1, K2	Column number for matrix elements corresponding to components 1 and 2 of observation segment

ZIJSET (MOM)

KALL	A flag indicating number of times ZIJSET is called
KC	Saves NC for output
KONT	An index locating position in EWPR and EWPI arrays
KP	Saves IP for output
KPR	Saves IPR for output
KR	Saves NR for output
KSEG	Index for observation segment with patch source
KSYMP	Image flag
NC	Number of columns of CM in core
NCOL	Number of columns to be filled in present call
NPATCH	Total number of patches in segment table
NR	Number of rows in CM in core
NROW	Number of rows to be filled in present call
NSHAD	Number of words in shadowing array
NWIRE	Total number of wire segments in segment table
PX	X component of unit vector normal to plane of incidence of ray from segment i to j that reflects from ground plane
PY	Y component of vector described under PX
R	RMAG
R2	R^2
REFH	The reflection coefficient for polarization normal to the plane of incidence
REFV	The reflection coefficient for polarization in the plane of incidence

ZIJSET (MOM)

REL	Multiplier to change geometry of actual segment to geometry of image
RH	ρ_{ij}
RHOX,RHOY,RHOZ	X,Y, and Z components of $\bar{\rho}_{ij}/\rho_{ij}$
RKH	Separation distance in meters for elementary dipole interaction ($= 1\lambda$)
RKH1	kR
RKH1IN	$1/RKH1$
RMAG	$ \bar{r}_i - \bar{r}_j $
S	Source segment length
SABI	Unit vector of the observation segment in the y direction
SABJ	Unit vector of source segment in the y direction
SALPI	Unit vector of the observation segment in the z direction
SALPJ	Unit vector of the source segment in the z direction
SALPR	Reflected unit vector of the source segment in the z direction
SETAC1	$\Delta\eta \exp(-jkr)$
T1ZJ, T2ZJ	The reflected z components of the unit vectors \hat{t}_1 and \hat{t}_2 , respectively
TLEFT	Time left
TNOW	Current time
TPIRSQ	$2\pi R^2$
TSTART	Time of previous call to TICHEK
XI,YI,ZI	X,Y, and Z location of observation point
XIJ,YIJ,ZIJ	$(x_i - x_j); (y_i - y_j); (z_i - z_j)$

ZIJSET (MOM)

XJ,YJ,ZJ	X,Y, and Z location of source point
XYMAG	Magnitude of projection of $(\bar{r}_i - \bar{r}_j)$ on x-y plane
ZP	z_{ij} coordinate in cylindrical coordinate system
ZRATI	$\left[\left(\frac{\epsilon_1}{\epsilon_0} \right) \left(1 - \frac{\sigma_j}{\omega \epsilon_1} \right) \right]^{-\frac{1}{2}}$
	Normalized complex ground plane impedance
ZRSIN	Quantity used in calculating ground reflection coefficients

5. I/O VARIABLES:

A. INPUT	LOCATION
CABI	/AMPZIJ/
CABJ	/AMPZIJ/
DIK	/AMPZIJ/
DIL	/AMPZIJ/
ETA	/AMPZIJ/
IC01	/AMPZIJ/
IC02	/AMPZIJ/
IP217	/GEODAT/
IPERF	/AMPZIJ/
ISHADW	F.P.
ISOFF	/ADEBUG/
ISON	/ADEBUG/
JBIA53	/SEGMNT/
JC01	/SEGMNT/

ZIJSET (MOM)

JC02	/SEGMNT/
JIX	/JUNCOM/
JIZ	/JUNCOM/
JOX	/JUNCOM/
JOZ	/JUNCOM/
KALL	F.P.
KSYMP	/AMPZIJ/
LSTSYS	/SYSFIL/
LUPRMT	/ADEBUG/
MAXCON	/JUNCOM/
NAMSEG	/SEGMNT/
NCIX	/JUNCOM/
NCIZ	/JUNCOM/
NCOL	F.P.
NCOX	/JUNCOM/
NCOZ	/JUNCOM/
NPATCH	/SEGMNT/
NROW	F.P.
NSHAD	F.P.
NWIRE	/SEGMNT/
NYRSYM	/SEGMNT/
RKH	F.P.
RSTART	/SYSFIL/
S	/AMPZIJ/
SABI	/AMPZIJ/

ZIJSET (MOM)

SABJ	/AMPZIJ/
SALPI	/AMPZIJ/
SALPJ	/AMPZIJ/
SALPR	/AMPZIJ/
TIMTGO	/SYSFIL/
TWOPI	/AMPZIJ/
WAVNUM	/AMPZIJ/
XI	/AMPZIJ/
XJ	/AMPZIJ/
YI	/AMPZIJ/
YJ	/AMPZIJ/
ZERO	/ADEBUG/
ZI	/AMPZIJ/
ZJ	/AMPZIJ/
ZRATI	/AMPZIJ/
B. OUTPUT	LOCATION
CM	F.P.
FJ	/AMPZIJ/
IERRF	/ADEBUG/
LSTSYS	/SYSFIL/
PX	/AMPZIJ/
PY	/AMPZIJ/
REFH	/AMPZIJ/
REFV	/AMPZIJ/
RHOX	/AMPZIJ/

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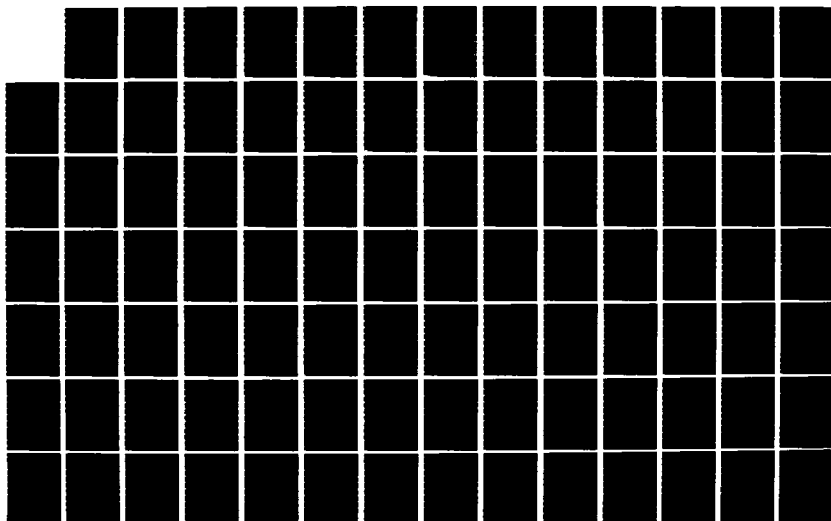
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COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

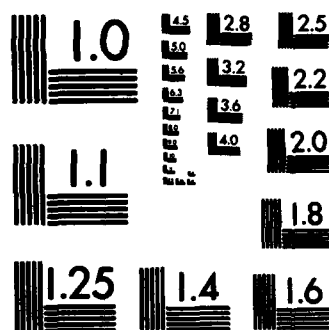
2/8

UNCLASSIFIED

RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

ZIJSET (MOM)

RHOY	/AMPZIJ/
RHOZ	/AMPZIJ/
RSTART	/SYSFIL/
SALPR	/AMPZIJ/
T1ZJ	/AMPZIJ/
T2ZJ	/AMPZIJ/

6. CALLING ROUTINE:

ZIJDRV

7. CALLED ROUTINES:

ASSIGN

CONVRT

ERROR

GNDREF

JNC SUM

NTRPLT

NTRPLU

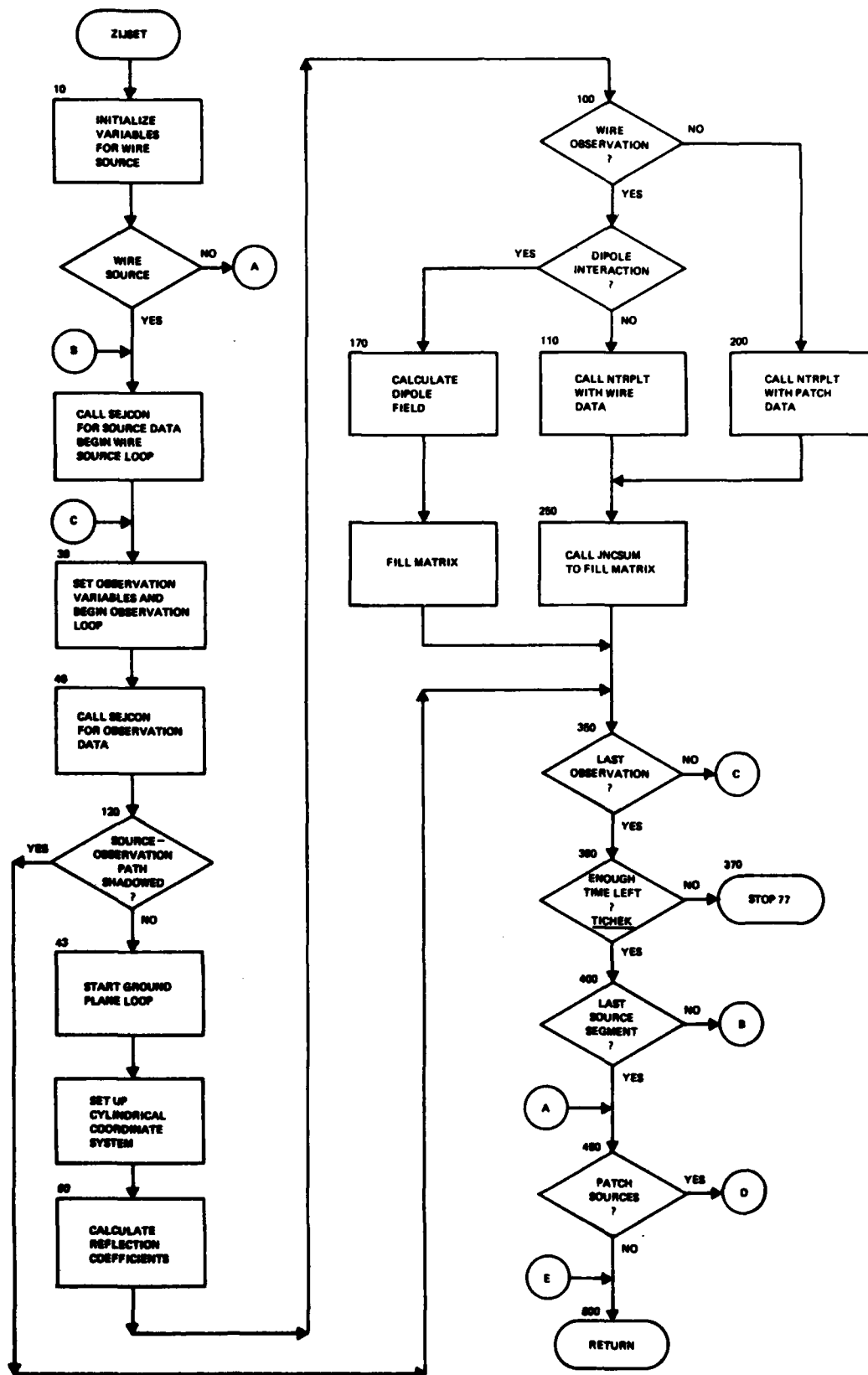
SEJCON

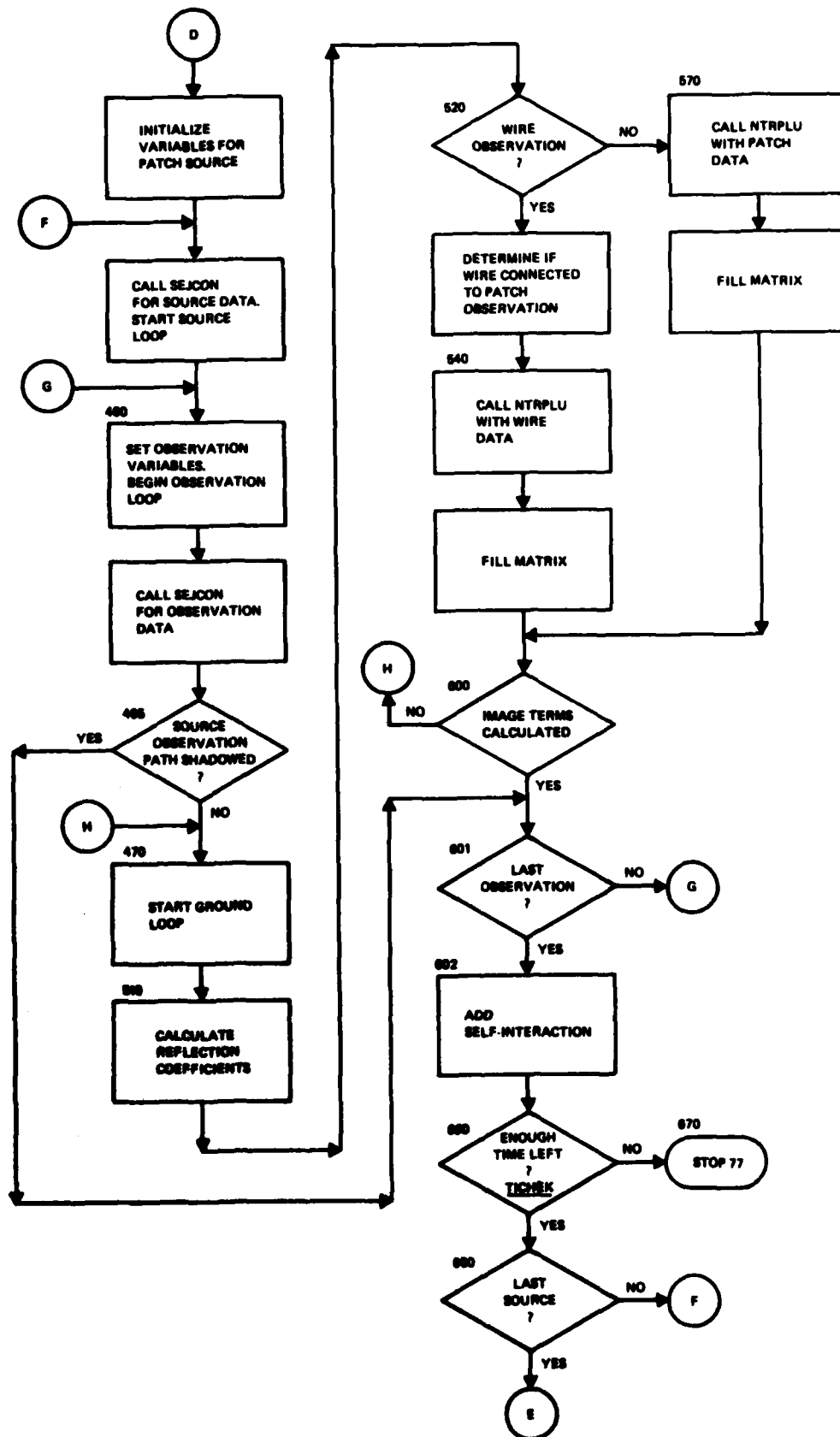
STATIN

STATOT

TICHECK

WLKBACK





1. NAME: ZINT (MOM)
2. PURPOSE: To compute the internal impedance of a circular wire with finite conductivity.
3. METHOD: The internal impedance per unit length of a circular wire is given by

$$Z = \frac{j}{b} \sqrt{\frac{f\mu}{2\pi\sigma}} \left[\frac{\text{Ber}(q) + j\text{Bei}(q)}{\text{Ber}'(q) + j\text{Bei}'(q)} \right]$$

where

$$q = b\sqrt{2\pi f\mu\sigma}$$

σ = wire conductivity

μ = permeability of free space

b = wire radius

f = frequency

Ber, Bei = Kelvin functions

The term that modifies the diagonal matrix element G_{ii} in the interaction matrix is the total impedance of segment i divided by Δ_i/λ where Δ_i = segment length. Thus, if G_{ii} is the diagonal matrix element without loading, the new element is

$$G_{ii} - Z\Delta_i/(\Delta_i/\lambda) = G_{ii} - Z\lambda$$

Normalized to wavelength, this term is

$$Z_i = Z\lambda = \frac{j}{(b/\lambda)} \sqrt{\frac{c\mu}{2\pi(\sigma\lambda)}} \left[\frac{\text{Ber}(q) + j\text{Bei}(q)}{\text{Ber}'(q) + j\text{Bei}'(q)} \right]$$

where

$$q = (b/\lambda) \sqrt{2\pi c\mu(\sigma\lambda)}$$

c = velocity of light

The Kelvin functions and derivatives of Kelvin functions are computed from their polynomial approximations (see reference A).

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
BEI	$\text{Bei}(q)$ or $\text{Bei}'(q)$
BER	$\text{Ber}(q)$ or $\text{Ber}'(q)$
BR1	$\text{Ber}(q) + j\text{Bei}(q)$ or $[\text{Ber}(q) + j\text{Bei}(q)] / [\text{Ber}'(q) + \text{Bei}'(q)]$
BR2	$\text{Ber}'(q) + j\text{Bei}'(q)$
CMOTP	$c\mu/(2\pi)$
CN	$(1 + j)/\sqrt{2}$
D	Function argument
F	$f(d)$ (see reference A)
FJ	j
G	$g(D)$ (see reference A)
PH	$\phi(X)$, $D = 8/X$ (see reference A)
PI	π
POT	$\pi/2$
ROLAM	b/λ
S	$(X/8)^4$
SIGL	$\sigma\lambda$
TH	$\theta(X)$, (see reference A)
TP	2π
TPCMU	$2\pi c\mu$, c = velocity of light
X	q
Y	$(X/8)^2$
ZINT	Z_1

CONSTANTS:

$$1.5707963 = \pi/2$$

$$3.141592654 = \pi$$

$$6.283185308 = 2\pi$$

$$60. = c\mu/2\pi$$

$$2.368705E+3 = 2\pi c\mu$$

$$(0., 1.) = j$$

$$(.70710678, .70710678) = (1 + j)/\sqrt{2}$$

$$(.70710678, -.70710678) = \text{limit for } q \rightarrow \infty \text{ of } [\text{Ber}(q) + j\text{Bei}(q)] / [\text{Ber}'(q) + j\text{Bei}'(q)]$$

Other constants are factors in the polynomial approximations.

5. I/O VARIABLES:

A.	INPUT	LOCATION
	ROLAM	F.P.
	SIGL	F.P.
B.	OUTPUT	LOCATION
	ZINT	FUNCTION

6. CALLING ROUTINE:

LODRV

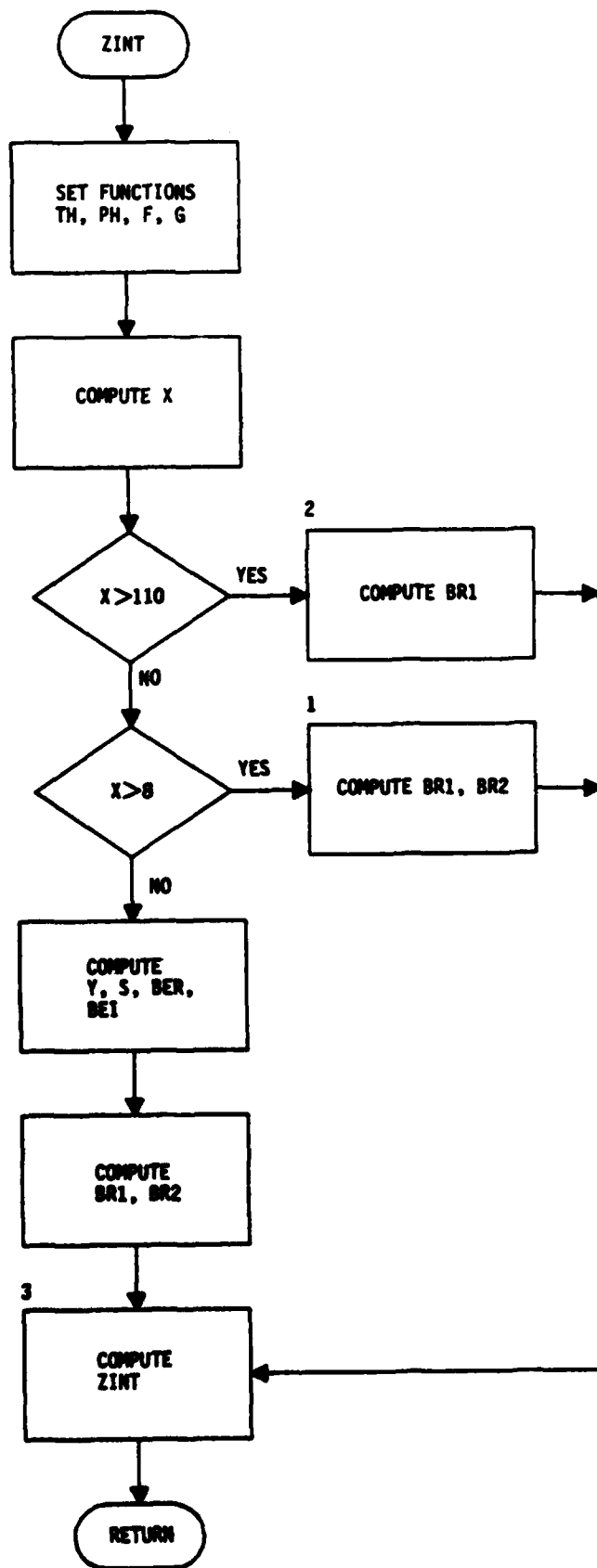
7. CALLED ROUTINES:

NONE

8. REFERENCE:

- A. Handbook of Mathematical Functions, M. Abramowitz, editor, National Bureau of Standards Applied Mathematics, Series 55, 1964, p. 384.

ZINT (MOM)



1. NAME: ZZXDUM (GTD, INPUT, MOM, OUTPUT)
2. PURPOSE: Dummy subroutine called to provide a program path through or around either nonexistent or undesired subroutines that may occur in the course of execution of a particular task.
3. METHOD: The subroutine name and arguments are transferred from the common INTARG array to the IWORDS array for printing. Printing will occur only if the DEBUG option is turned on for the print command (DBGPRT).

4. INTERNAL VARIABLES:

VARIABLE	DEFINITION
NAME	Left-justified alphameric name of subroutine for which ZZXDUM is being substituted

5. I/O VARIABLES:

A. INPUT	LOCATION
FLTARG	/ARGCOM/
INTARG	/ARGCOM/
LUPRNT	/ADEBUG/
NAME	F.P.
NUMARG	/ARGCOM/

B. OUTPUT
NONE

6. CALLING ROUTINES*:

DMPDRV (1,2,3,4)
EXCDRV (3)
TSKXQT (1,3)
ZCDVRV (3)

*1-INPUT
2-GTD
3-MOM
4-OUTPUT

ZZXDUM

(GTD, INPUT, MOM, OUTPUT)

7. CALLED ROUTINES:

ASSIGN

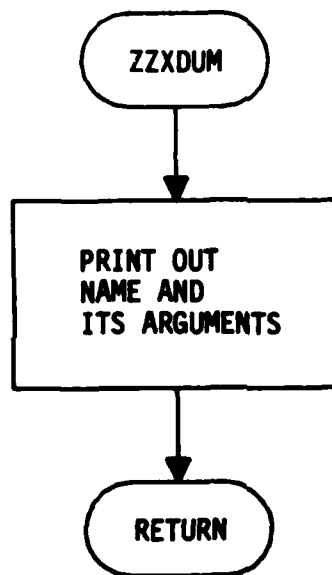
STATIN

STATOT

WLKBACK

ZZXDUM

(GTD, INPUT, MOM, OUTPUT)



D. SYMBOL CROSS REFERENCE INDEX

1. GTD Module

I N D E X

***** SUPER INDEX *****

SYMBOL	-	*****	ROUTINES IN WHICH THE SYMBOL IS USED							*****
A	-	TANG	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL	RFDFPT	RFDFIN	
		REFCYL	RCLRPL	RCLDPL	RADCV	NAND9	GTDDRV	GEOMPC	FJNT	
		FRNELS	FKY	FKARG	FCT	ENDIF	DZCOEF	DQG32	DPLRCL	
		DPI	DICOEF	DFRPT	DFPTCL	CYLINT	CAPINT			
AA	-	TANG	GTDDRV							
ABS	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	ROMBNT	
		RFPTCL	RFDFPT	REFCYL	REFBP	RCLRPL	QFUN	PUTKWV	POLYRT	
		PLAINT	PFUN	GTDDRV	GETGE0	GEOMPC	GEOMC	GEOM	FLDDRV	
		FKY	FKARG	FFCT	FCT	EXCDRV	ESPARM	ENDIF	DZCOEF	
		DPLRPL	DPI	DIFPLT	DICOEF	DFRPT	DFPTWD	DFPTCL	CNVST	
		BTAN2	BABS							
ACOS	-	XYZFLD	RPLDPL	RCLRPL	NFD	GTDDRV	ENDIF	DPLRPL	DIFPLT	
ACS	-	DPI	DICOEF							
ACTHP	-	SOURCP	SOURCE							
ADDOPR	-	DMPDRV								
ADEBG	-	RWCOMS								
ADN	-	RPLDPL	DPLRPL	DIFPLT						
AE	-	ENDIF	DFPTCL	CAPINT						
AFN	-	RPLDPL	DPLRPL	DIFPLT						
AIMAG	-	ZGDRV	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	RFDFIN	REFPLA	
		REFCAP	RCLDPL	POLYRT	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT	
		BEXP	BABS							
AL	-	TANG								
ALOG	-	ROBNT								
ALOG10	-	BLOG10								
ALPHA	-	SCTCYL	SCLRPL	RPLSCL						
ALR	-	SCTCYL	SCLRPL	RPLSCL	FKARG					
ALRS	-	SCTCYL	SCLRPL	RPLSCL						
ALS	-	SCTCYL	SCLRPL	RPLSCL						
AM	-	RFDFPT								
AMAX1	-	SCTCYL	SCLRPL	RPLSCL						
AMC	-	QFUN	PFUN							
AMIN1	-	SCTCYL	SCLRPL	RPLSCL						
ANOD	-	SOURCE	FRNELS	BEXP						
AMPZJ	-	RWCOMS								
AN	-	SCLRPL	RCLRPL	PLAINT	IMAGE	GEOMC	GEOM	DPLRPL	CAPINT	
ANG	-	DPI	DICOEF							
ANI	-	GEOM								
ANN	-	GEOM								
ANP	-	GEOM								
ANR	-	SCLRPL	RCLRPL							
ANS	-	FKARG								
ANUMK	-	SEJCON	INTPLT							
ANUHL	-	SEJCON	INTPLT							
AP	-	XYZFLD	DZCOEF							
AQ	-	QFUN	PFUN							
AREA	-	ZGDRV	SEJCON							
ARG	-	BEXP								

PREVIOUS PAGE
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GTD Module

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ARGCM	-	RWCOMS							
ARGI	-	BEXP							
ARG11	-	BEXP							
ARGR	-	BEXP							
AS	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
ASSIGN	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTR	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
AT	-	XYZFLD							
ATAN2	-	ESPARM	BTAN2						
AXCL	-	GTDDRV							
AYCL	-	GTDDRV							
AZCL	-	GTDDRV							
A1	-	SCLRPL	RCLRPL	DPLRPL					
A11	-	ROTATE							
A12	-	ROTATE							
A13	-	ROTATE							
A2	-	SCLRPL	RCLRPL	FCT	DPLRPL				
A21	-	ROTATE							
A22	-	ROTATE							
A23	-	ROTATE							
A3	-	SCLRPL	RCLRPL	DPLRPL					
A31	-	ROTATE							
A32	-	ROTATE							
A33	-	ROTATE							
B	-	ZGTDRV	TANG	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL
		RFDFPT	RFDFIN	REFCYL	RCLRPL	RCLDPL	RADCY	NANDB	GTDDRV
		GEOMPC	FUNI	FRNELS	FKARG	FCT	ENDIF	DQG32	DPLRCL
		DFRFPT	DFPTWD	DFPTCL	CYLINT	CAPINT			
BABS	-	POLYRT	DICOEF	DFPTCL					
BB	-	TANG	GTDDRV						
BCD	-	RFDFPT	RCLDPL	GEOMPC					
BD	-	GEOM	DPLRCL						
BDEL	-	DFPTWD							
BDM1	-	DFPTWD							
BLOW	-	DFPTWD							
BET	-	TANG	DPI	DICOEF					
BETN	-	RPLDPL	DW	DPLRPL	DIFPLT				
BETP	-	RPLDPL	DW	DPLRPL	DIFPLT				
BEXP	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	QFUN	PFUN	INCFLD	FKY	FFCT
		ENDIF	DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	
BJ	-	SCTCYL	SCLRPL	RPLSCL					
BK	-	SOURCE	ROMBNT						
BM	-	CYLINT							

GTD Module

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BO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
BOP	-	SOURCP	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
BOT	-	GEOM							
BOTL	-	DPI	DICOF						
BPL	-	CYLINT							
BRD	-	RPLDPL	RFDFT	DPLRPL	DIFPLT	DFPTWD			
BSD	-	DFRFT							
BT	-	TANG							
BTANZ	-	XYZFLD	TANG	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	RFPTCL
		RFDFT	RFDFT	REFCYL	REFBP	RCLDPL	RCLDPL	PLAIN	NFD
		GTDDRV	GEOMPC	GEOM	ENDIF	DPLRPL	DPLRCL	DIFPLT	DFPTWD
		CYLINT	CAPINT						
BTCN	-	GEOMPC	GEOM						
BTCP	-	GEOMPC	GEOM						
BTB	-	CYLINT							
BTDC	-	GEOMPC	DPLRCL						
BTI	-	RPLSCL	RPLRCL	RFPTCL	GEOMPC				
BTS	-	SCTCYL	SCLRPL	RFPTCL	REFCYL				
BX	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL	GEOMC	CYLINT		
BY	-	SCTCYL	SCLRPL	RPLSCL					
BZ	-	SCTCYL	SCLRPL	RPLSCL					
BZ	-	FCT							
C	-	QFUN	POLYRT	PFUN	FRNELS	FKY	DG632	DPI	DMPDRV
		DICOF	DFPTCL						
CA	-	RFDFT							
CAB1	-	ZGDRV	SEJCON						
CABJ	-	ZGDRV	SEJCON						
CABS	-	GTDDRV	BABS						
CAPINT	-	REFCAP	GEOMC	CYLINT					
CAS	-	SCLRPL	GTDDRV						
CBO	-	ENDIF							
CC	-	POLYRT	FRNELS	DFPTCL					
CCC	-	SCTCYL	SCLRPL	RPLSCL					
CCDK2	-	SOURCP							
CCIV	-	DFRFT							
CCU	-	RFDFT							
CCV	-	RFDFT							
CC2	-	FLDDRV							
CC3	-	FLDDRV							
CDK2	-	SOURCP	SOURCE						
CEXP	-	BEXP							
CF	-	SCTCYL	SCLRPL	RPLSCL					
CFM	-	SCTCYL	SCLRPL	RPLSCL					
CFR	-	FFCT							
CFS	-	SCTCYL	SCLRPL	RPLSCL					
CHKPNT	-	ZIJDV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	OPNFIL
		MAIN	GETSYM	GETKVV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CHKWRT	-	ZIJDV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	OPNFIL

GTD Module

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		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CI	-	FLDDRV							
CINT	-	SOURCE							
CIUE	-	DFRFP							
CIV	-	DFRFP							
CIVE	-	DFRFP							
CJ	-	SOURCE	SOURCE	SCTCYL	SCLRPL	RPLSCL	INCFLD	GTDDRV	ENDIF
		DZCOEF	BLDATA	BEXP					
CK	-	INTPLT							
CL	-	INTPLT							
CLITE	-	ZIJDRV	PUTKWV	EXCDRV	BLKDAT				
CLOG	-	DFPTCL							
CLSFIL	-	WRTCHK	SYNDEF	STATFN	RWFILS	PUTSYM	OPNFIL	ERROR	DMPDRV
CM	-	ZGDRV	JNCSUM						
CMAG	-	DMPDRV							
CMAX	-	POLYRT							
CMPLX	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFIN
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	QFUN	POLYRT	PFUN
		JNCSUM	INCFLD	FKY	FFCT	ESPARM	ENDIF	DZCOEF	DPLRPL
		DPLRCL	DPI	DIFPLT	DICOEF	DFPTCL			
CMPLX1	-	DMPDRV							
CMPLX2	-	DMPDRV							
CNC	-	REFCAP	GTDDRV	GEOMC	ENDIF	DFPTCL	CAPINT		
CNDK2	-	SOURCE							
CNEW	-	POLYRT							
CNIN	-	GEOMPC							
CNIP	-	GEOMPC							
CNNW	-	POLYRT							
CNP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
CNSLIO	-	WRTCHK							
CNVTST	-	ROMBNT							
CO	-	NTGRAN							
COINC	-	SOURCE							
COM	-	DPI	DICOEF						
COMPLT	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYNDEF	STRTUP	STATFN	RESTRT	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CONSAV	-	SYSCHK							
CONJ6	-	RFDFIN	POLYRT	FKY	DFPTCL				
CONS	-	INTPLT							
CONST	-	SOURCE	SOURCE						
CONVRT	-	ZIJDRV	TSKXQT	SYMUPD	SYNDEF	RWFILS	RESTRT	PUTSYM	PUTKWV
		PRTKJ	POSTIP	GETSYM	GETKWV	GETGEO	GETARG	FNDREC	FLDDRV
		EXCDRV	DMPDRV						
COP1	-	DMPDRV							
COP2	-	DMPDRV							
CORN	-	RPLDPL	DPLRPL	DIFPLT					
COS	-	XYZFLD	TPNFLD	TANG	SOURCE	SOURCE	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLDPL	RCLRPL	ROTATE	RFPYCL	RFDFT	RFDFIN	REFPLA
		REFCYL	REFBP		RCLDPL	RACV	NTGRAN	NAND3	INTPLT

GTD Module

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		GTDDRV	GETFLD	GEOMPC	FUNI	FRNELS	FCT	ESPARM	ENDIF
		DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFPY	DFPTCL
		CYLINT	CAPINT						
COSETA	-	ESPARM							
COSK	-	INTPLT							
COSL	-	INTPLT							
COSP	-	ESPARM							
COST	-	ESPARM							
COTA	-	DICOEF							
COTB	-	RFDFT							
CP	-	XYZFLD	ROTATE	PLAINY					
CPCS	-	RFDFT	DFRFPY						
CPBC	-	GEOMPC	DFRFPY						
CPE	-	ENDIF							
CPFRWD	-	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBCX	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	OPNFIL
		MAIN	GETSYM	GETKVV	FLDDRV	ERROR	BLKDAT	ASSIGN	
CPH	-	SOURCE	RPLDPL	RCLCPL	DPLRPL	DPLRCL	DIFPLT		
CPHI	-	RPLRPL	RPLRCL	REFPLA					
CPHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
CPHO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
CPHP	-	SOURCEP	SOURCE						
CPHS	-	SOURCE							
PI4	-	SOURCEP	SCTCYL	SCLRPL	RPLSCL	INCFLD	GTDDRV	ENDIF	BLDATA
		BEXP							
CPD	-	RFDFT							
CPDP	-	RFDFT							
CPP	-	RFPTCL							
CPS	-	SCTCYL	RPLSCL	RPLRCL	RFPTCL	REFCYL	REFBP	GTDDRV	DPLRCL
		CYLINT							
CPS1	-	RPLRCL	REFCYL						
CPS2	-	RPLRCL	REFCYL						
CR	-	FLDDRV							
CRK	-	NTGRAN							
CRPV	-	DFRFPY							
CRUR	-	RFDFT							
CRUV	-	RFDFT							
CRV	-	RFDFT							
CRVR	-	RFDFT							
CRVV	-	RFDFT							
CR1	-	SOURCE							
CR1R	-	SOURCE							
CR1RR	-	SOURCE							
CR2	-	SOURCE							
CR2R	-	SOURCE							
CR2RR	-	SOURCE							
CS	-	ROTATE	FCT						
CSAS	-	SCTCYL	SCLRPL	RPLSCL					
CSCA	-	DPI							
CSCE	-	DFRFPY							

GTD Module

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CSCR	-	DFRFPY							
CSP	-	DZCOEF							
CSORT	-	POLVRT	DZCOEF						
CST	-	SOURCE							
CSTM	-	RWCOMS							
CSV	-	RPLRCL	RFPTCL	RFDFPT	RFDFIN	REFCYL	RCLRPL	DFRFPY	
CS2	-	FCT							
CT	-	XYZFLD	ROTATE						
CTB	-	DFPTWD							
CTBP	-	RFDFPT							
CTBT	-	RFDFPT							
CTC	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	GTDDRV
		GEOMPC	ENDIF	DPLRCL	DFPTCL	CYLINT			
CTCS	-	RFDFPT	DFRFPY						
CTE	-	ENDIF							
CTH	-	SOURCE	RPLDPL	DPLRPL	DIFPLT				
CTHC	-	RCLDPL	DPLRCL						
CTHD	-	DPLRCL							
CTHI	-	RPLRPL	RPLRCL	REFPLA	REFCYL	ENDIF			
CTHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
CTHM	-	RPLDPL	DPLRPL	DIFPLT					
CTHP	-	SOURCE	SOURCE	RPLDPL	DPLRPL	DIFPLT			
CTHS	-	SOURCE	SCTCYL	RPLSCL	RPLRCL	REFCYL	GTDDRV		
CTHW	-	RPLRCL	RCLRPL						
CTO	-	RFDFPT							
CTOP	-	RFDFPT							
CTS	-	REFBP							
CURENT	-	ZGTDRV	GTDDRV	GETFLD					
CV	-	TANG	ENDIF	DFPTCL					
CVAL	-	CYAXIS	BLKDAT						
CVE	-	TANG	CYLINT	CAPINT					
CVX0	-	RCLDPL							
CVXMP	-	RCLDPL							
CVXMP1	-	RCLDPL							
CW	-	RPLRCL	REFCYL	RCLRPL	RCLDPL				
CX	-	CYAXIS	BLKDAT						
CXRUE	-	DFRFPY							
CXRUI	-	DFRFPY							
CXRVE	-	DFRFPY							
CXRV1	-	DFRFPY							
CXR1	-	RCLDPL							
CXR2	-	RCLDPL							
CYAXIS	-	GTDDRV							
CYLINT	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	RCLRPL	RCLDPL
		INCFLD	GTDDRV	GEOM	DPLRPL	DPLRCL	DIFPLT		
C1	-	FLDDRV							
C11	-	SCLRPL	RCLRPL	DPLRPL					
C11A	-	DPLRPL							
C12	-	SCLRPL	RCLRPL	DPLRPL					
C12A	-	DPLRPL							

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C2	-	FLDDRV							
C21	-	SCLRPL	RCLRPL	DPLRPL					
C21A	-	DPLRPL							
C22	-	SCLRPL	RCLRPL	DPLRPL					
C22A	-	DPLRPL							
C3	-	FLDDRV							
D	-	XYZFLD	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	PLAINT	NFD	INCFLD
		GTDDRV	FNELS	FLDDRV	EXCDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT
		DFRFT	DFPTWD	DFPTCL	CYLINT	CAPINT			
DATIM	-	SYSRTN							
DAX	-	RFDFT							
DAY	-	RFDFT							
DAZ	-	RFDFT							
DBGPRT	-	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYNUPD	SYMDEF	STRUP	STATOT	STATIN
		STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RMCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPTCL	RFDFT	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		OPNFIL	NTGRAN	MOVFIL	MAIN	JNC SUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWV	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPORV	DIFPLT	DFRFT	CYAXIS	CONVRT	CLSFIL	BTAN2
		BLKDAT	ASSIGN						
DBGSAV	-	ZIJDRV							
DBI	-	PLAINT							
DBT	-	PLAINT							
DC	-	RFDFT	FLDDRV						
DCP	-	RFDFT							
DCT	-	RFDFT							
DD	-	RPLRCL	RFPTCL	REFCYL	RCLRPL	RCLDPL	DPLRCL	DFPTCL	
DDC	-	GEOMPC	DPLRCL	DFRFT					
DDC1	-	DFRFT							
DDC2	-	DFRFT							
DDV	-	RFDFT							
DDPV	-	RFDFT							
DDRV	-	RFDFT							
DDTV	-	RFDFT							
DDV	-	RFDFT							
DD1	-	RPLRCL	REFCYL	RCLRPL	DPLRCL	CYLINT			
DD2	-	RPLRCL	REFCYL	RCLRPL	DPLRCL	CYLINT			
DE	-	RFDFT	DFRFT						
DEEX	-	DFPTCL							
DEEY	-	DFPTCL							
DEEZ	-	DFPTCL							
DEL	-	RPLDPL	FFCT	DPLRPL	DIFPLT	DICOEF	DFPTCL		
DELL	-	DICOEF							
DELU	-	DICOEF							
DZM	-	DPI	DICOEF						

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DEN1	-	DFPTCL							
DEN2	-	DFPTCL							
DEN3	-	DFPTCL							
DEN5	-	DFPTCL							
DEPH	-	SCTCYL	SCLRPL	RPLSCL					
DET	-	RFDFT	RCLDPL	DPLRCL	DIFPLT				
DETH	-	SCTCYL	SCLRPL	RPLSCL					
DFBT	-	RWCOMS							
DFPTCL	-	ENDIF							
DFPTWD	-	RPLDPL	RFDFT	DPLRPL	DIFPLT				
DFRFT	-	DPLRCL							
DGTORD	-	FLDDRV	ESPARM	BLKDAT					
DH	-	RPLDPL	RCLDPL	ENDIF	DZCOEF	DW	DPLRPL	DPLRCL	DIFPLT
DHIJ	-	RPLRPL							
DHIR	-	RPLDPL							
DHIS	-	RPLRPL	RPLRCL						
DHIT	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMC	GEOM
		ENDIF	DPLRPL	DPLRCL	DIFPLT	CYLINT	CAPINT		
DHIV	-	RPLSCL							
DHJT	-	SCLRPL	RCLRPL						
DHT	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	RCLRPL
		PLAINT	INCFLD	GTDDRV	DPLRPL	CAPINT			
DI	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	REFPLA	REFCYL	REFCAP
		RCLRPL	ENDIF						
DICOEF	-	RPLDPL	DW	DPLRPL	DIFPLT				
DIFPLT	-	GTDDRV							
DIJ	-	SCTCYL	SCLRPL	RPLSCL					
DIJXDJ	-	SCTCYL	SCLRPL	RPLSCL					
DIK	-	SEJCON	INTPLT						
DIL	-	SEJCON	INTPLT						
DIN	-	RPLDPL	DW						
DIP	-	RPLDPL	DW						
DIR	-	DICOEF							
DIT	-	SCTCYL	SCLRPL	RPLSCL					
DIVOPR	-	DMPDRV							
DIXDIJ	-	SCTCYL	SCLRPL	RPLSCL					
DJ	-	SYSATN	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RCLRPL	DPLRPL	
DJT	-	SCTCYL	SCLRPL	RPLSCL					
DJ1	-	SCLRPL							
DJ2	-	SCLRPL							
DK2	-	SOURCE	SOURCE						
DM	-	DFPTCL	CYLINT						
DMAG	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL	DPLRPL			
DMPDRV	-	TSKXQT							
DN	-	REFCAP	REFBP	RADCY	PLAINT	HANDB	DPI	DICOEF	CAPINT
DNI	-	REFCAP							
DNS	-	DPI	DICOEF						
DOB	-	RFDFT							
DOM	-	RFDFT							

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DOT	-	GEOM							
DOTP	-	RPLRCL	RFPTCL	RFDFTP	REFCYL	RCLRPL	RCLDPL	DPLRCL	DFRFTP
DOTQ1	-	DFPTCL							
DOTQ2	-	DFPTCL							
DOV	-	RFDFTP							
DOX	-	RFDFTP							
DOY	-	RFDFTP							
DOZ	-	RFDFTP							
DP	-	TPNFLD	SCLRPL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	GTDDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
DPH	-	RPLDPL	RCLDPL	DW	DPLRPL	DPLRCL	DIFPLT		
DPI	-	DW							
DPIR	-	DPI							
DPL	-	CYLINT							
DPLRCL	-	GTDDRV							
DPLRPL	-	GTDDRV							
DPN	-	DW							
DPP	-	DW							
DPR	-	TANG	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFPTCL	BLDATA
DPS	-	RPLOPL	RCLDPL	DW	DPLRPL	DPLRCL	DIFPLT		
DPSR	-	RFPTCL	RFDFTP	DFRFTP					
DPTNFW	-	GEOMPC							
DPX	-	RFPTCL							
DPY	-	RFPTCL							
DQG32	-	SCTCYL	SCLRPL	RPLSCL	FKARG				
DR	-	RFPTCL	RFDFTP	REFBP	DFRFTP				
DRM	-	RFDFTP							
DRP	-	RFDFTP	DFRFTP						
DRT	-	RFDFTP	DFRFTP						
DRU	-	RFDFTP							
DRV	-	RFDFTP							
DS	-	RPLOPL	RFPTCL	RCLDPL	GEOMPC	GEOMC	GEOM	ENDIF	DZCOEF
		DW	DPLRPL	DPLRCL	DIFPLT				
DSM	-	GEOMC	GEOM						
DSSX	-	DFPTCL							
DSSY	-	DFPTCL							
DSSZ	-	DFPTCL							
DT	-	ZGTDRV	WRTCHK	TSKXQT	TPNFLD	TICHEK	TANG	SYSCHK	SCTCYL
		SCLRPL	RPLSCL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	GTDDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
DTCH	-	GEOMPC							
DTCP	-	GEOMPC							
DTD	-	CYLINT							
DTDC	-	GEOMPC	DPLRCL						
DTI	-	RPLSCL	RPLRCL	GEOMPC					
DTS	-	SCTCYL	SCLRPL	REFCYL	RCLRPL	GEOMC	CYLINT		
DTSR	-	RFDFTP	DFRFTP						
DU	-	RFDFTP	DFRFTP						
DUMMY	-	ZGTDRV							
DV	-	RPLOPL	RFPTCL	RFDFTP	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFRFTP

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DVB	-	DFPTWD	DFPTCL				
DVT	-	RFPTCL					
DV1	-	RFPTCL					
DV2	-	TANG					
DW	-	TANG					
DX	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	
DXF	-	SOURCE	RFPTCL				
DXP	-	RFDFT					
DXV	-	RFDFT					
DY	-	RPLRCL	REFCYL	RCLRPL	CYLINT		
DYP	-	RFPTCL	POLYRT				
DZ	-	RFDFT					
DZCOEF	-	ROMBNT					
DZOT	-	ENDIF					
DZP	-	ROMBNT					
D1	-	RFDFT					
D12	-	SCTCYL	RPLSCL	RPLRCL	REFCYL		
D2	-	REFCYL	CYLINT				
D4	-	SCTCYL	RPLSCL	RPLRCL	REFCYL		
E	-	DFPTCL					
EA	-	SCLRPL	GETFLD	FLDRV	EXCDRV	ESPARM	
EB	-	SOURCP					
EBI	-	SOURCP					
ECBR	-	RPLDPL	DPLRPL	DIFPLT			
ECC	-	RPLDPL	DPLRPL	DIFPLT			
ECPN	-	EXCDRV	ESPARM				
ECPNC	-	RPLDPL	DPLRPL	DIFPLT			
ECTN	-	RPLDPL	DIFPLT				
ECTNC	-	RPLDPL	DIFPLT				
EDCPN	-	RPLDPL	DIFPLT				
EDCRPP	-	GTDRV					
EDCRPT	-	GTDRV					
EDCTN	-	GTDRV					
EDDPN	-	GTDRV					
EDDTH	-	GTDRV					
EDPCPN	-	GTDRV					
EDPCTN	-	GTDRV					
EDPN	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT
EDPHA	-	ENDIF					
EDPHB	-	ENDIF					
EOPL	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT	
EDPP	-	ENDIF					
EDPPN	-	GTDRV					
EDPR	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT
EDPTH	-	GTDRV					
EDRCP	-	GTDRV					
EDRCT	-	GTDRV					
EDRPP	-	GTDRV					
EDRPT	-	GTDRV					

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EDTH	-	RPLDPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT		
EDTHA	-	ENDIF							
EDTHB	-	ENDIF							
EEX	-	DFPTCL							
EEY	-	DFPTCL							
EEZ	-	DFPTCL							
EF	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
EFA	-	SOURCP							
EFB	-	SOURCP							
EFC	-	DPLRPL							
EG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
EGC	-	DPLRPL							
EMI	-	ZGDRV							
EMP	-	SCTCYL	SCLRPL	RPLSCL					
EMPH	-	SCTCYL	REFCYL						
EMPHI	-	RPLSCL	RPLRCL						
EMPHJ	-	SCLRPL	RCLRPL						
ENR	-	ZGDRV							
ENT	-	ZGDRV	SCTCYL	SCLRPL	RPLSCL				
ENTH	-	SCTCYL	REFCYL						
ENTHI	-	RPLSCL	RPLRCL						
ENTHJ	-	SCLRPL	RCLRPL						
EIPN	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
EIPL	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
EIPLP	-	SOURCP	RPLDPL	DPLRPL	DIFPLT				
EIPP	-	RPLRCL	REFCYL	RCLRPL	ENDIF				
EIPR	-	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRPL	DPLRCL
		DIFPLT							
EIPRP	-	SOURCP	RPLDPL	DPLRPL	DIFPLT				
EITH	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
EIX	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
EIV	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
EIZ	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		ENDIF	DPLRPL	DPLRCL	DIFPLT				
EL1	-	ROMBNT							
EL2	-	ROMBNT							
EM	-	ESPARM	ENDIF						
ENAG	-	DFPTWD							
ENDIF	-	GTDDRV							
END1	-	SEJCON							
END2	-	SEJCON							
ENORM	-	GEOMC	GEOM						
EP	-	XYZFLD	SOURCP	SCTCYL	SCLRPL	RPLSCL	ROMBNT		
EPN	-	RPLRCL	REFCYL	REFCAP	RCLRPL	INCFLD	GTDDRV	FLDDRV	
EPNT	-	GTDDRV							
EPI	-	ESPARM							

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ERY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL		
ERZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL		
ESP	-	SCTCYL	SCLRPL	RPLSCL				
ESPARM	-	GETFLD						
ESPH	-	SCTCYL	REFCYL	GTDDRV				
ESPHI	-	RPLSCL	RPLRCL					
ESPHJ	-	SCLRPL	RCLRPL					
EST	-	SCTCYL	SCLRPL	RPLSCL				
ESTH	-	SCTCYL	REFCYL	GTDDRV				
ESTHI	-	RPLSCL	RPLRCL					
ESTHJ	-	SCLRPL	RCLRPL					
ESX	-	ESPARM						
ESY	-	ESPARM						
ESZ	-	ESPARM						
ET	-	XYZFLD	SYSCHK	SOURCP	SCTCYL	SCLRPL	RPLSCL	
ETA	-	SOURCP	SOURCE	BLKDAT				
ETAE	-	ESPARM						
ETH	-	RPLRCL	REFCYL	REFCAP	RCLRPL	INCFLD	GTDDRV	FLDDRV
ETHJ	-	GTDDRV						
ETI	-	JNCSUM	ESPARM					
ETIME	-	SYSCHK						
ETP	-	SOURCP						
ETR	-	JNCSUM	ESPARM					
ETT	-	SOURCP						
EX	-	SOURCE	RPLRPL	RPLRCL	REFPLA	REFCYL	REFCAP	RCLRPL
		FLDDRV	ENDIF	DPI	DICOEF			INCFLD
EXC	-	QFUN	PFUN					
EXCDRV	-	TSKXQT						
EXIT1	-	SOURCE						
EXPARG	-	SOURCE						
EXPH	-	RPLDPL	RCLDPL	DPLRPL	OPLRCL	DIFPLT		
EXPOPR	-	DMPDRV						
EXQ	-	DFPTCL						
EXRT1	-	SOURCE						
EX1	-	SOURCE						
EY	-	SOURCE	RPLRCL	REFCYL	RCLRPL	INCFLD	FLDDRV	ENDIF
EYIT1	-	SOURCE						
EYQ	-	DFPTCL						
EYRT1	-	SOURCE						
EZ	-	SOURCE	RPLRCL	REFCYL	RCLRPL	INCFLD	FLDDRV	ENDIF
EZIC	-	SOURCE						
EZIK	-	SOURCE						
EZIS	-	SOURCE						
EZIT1	-	SOURCE						
EZQ	-	DFPTCL						
EZRC	-	SOURCE						
EZRK	-	SOURCE						
EZRS	-	SOURCE						
EZRT1	-	SOURCE						
E1	-	TANG	SOURCP					

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E2	-	TANG	SOURCP						
F	-	FCT	CYLINT						
FA	-	DICOEF							
FACTOR	-	GTDDRV	GEOMC	GEOM					
FANG	-	GEOM							
FANF	-	SOURCE							
FARFLD	-	GETFLD	FLDDRV	EXCDRV	ESPARM				
FARG	-	SOURCE							
FCT	-	SCTCYL	SCLRPL	RPLSCL	DQG32				
FFCT	-	RPLDPL	DPLRPL	DIFPLT	DICOEF				
FG	-	CYLINT							
FGH	-	CYLINT							
FH	-	CYLINT							
FI	-	SCTCYL	SCLRPL	RPLSCL	RFPTCL	RFDFPT	FRNELS	DFRFPT	
FIRST	-	IBITCK							
FIXY	-	SCLRPL							
FJ	-	ZIJDRV	ZGDRV	STRUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
FKARG	-	SCTCYL	SCLRPL	RPLSCL					
FKY	-	DZCOEF							
FL	-	FKY							
FLA	-	FKY							
FLDCM	-	RWCOMS							
FLDDRV	-	TSKXQT							
FLDMAG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLOPL
		INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT			
FLDPT	-	SMAGNF	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFPT
		REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	NFD	INCFLD	GTDDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT	DFPTCL			
FLDPTI	-	SCLRPL	RCLRPL	DPLRPL					
FLDX	-	DFPTWD							
FLI	-	ENDIF	DZCOEF						
FLOAT	-	SYSRTN	SYSCHK	SEJCON	QFUN	PFUN	GETKWV	GETARG	DPI
		DMPDRV	DICOEF						
FLRN	-	ENDIF	DZCOEF						
FLRO	-	ENDIF	DZCOEF						
FLTARG	-	ZZXDUM	ZIJDRV	TSKXQT	SYMDEF	SET	RESTR	PRTKJ	OPNFIL
		MAIN	GETGEO	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT
FLTINC	-	SYSCHK							
FLTILT	-	ZZXDUM	ZIJDRV	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS
		RESTR	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MAIN
		GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV
		ESPARM	DMPDRV	CONVRT	BLKDAT				
FLTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
FN	-	RPLDPL	RCLDPL	GTDDRV	GEOM	ENDIF	DZCOEF	DW	DPLRPL
		DPLRCL	DPI	DIFPLT	DICOEF				
FNCON	-	SEJCON							
FNDREC	-	PUTSYM	GETSYM						
FNM	-	ROMBNT							
FNN	-	RPLDPL	DPLRPL	DIFPLT					

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FNP	-	RPLDPL	RCLDPL	GTDDRV	GEOMPC	GEOM	DPLRPL	DPLRCL	DIFPLT
FNS	-	ROMBNT							
FP	-	RFDFT	DFRFT						
FPA	-	DPI							
FPTMAG	-	NFD							
FPTXY	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL			
FP1	-	ZGDRV	GTDDRV						
FP2	-	ZGDRV	GTDDRV						
FP3	-	ZGDRV	GTDDRV						
FR	-	FRNELS							
FRFLG	-	GTDDRV							
FREQ	-	ZGDRV							
FRFLD	-	FLDDRV							
FRNELS	-	SCTCYL	SCLRPL	RPLSCL	FKY	FFCT	DPI	DICOEF	
FRAG	-	GTDDRV							
FRQGLA	-	GTDDRV							
FRQMHZ	-	ZIJDRV	ZGDRV	STRUP	PUTKVV	GTDDRV	GETKVV	EXCDRV	
FRQSAV	-	ZIJDRV	EXCDRV						
FSIGN	-	ZGDRV							
FSTCHK	-	WRTCHK							
FT	-	ZGDRV	RFDFT	INTPLT					
FTC	-	INTPLT							
FTK	-	INTPLT							
FTS	-	INTPLT							
FU	-	RFDFT	DFRFT						
FUNI	-	FKARG							
FV	-	RFDFT	DFRFT						
FX	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
FY	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
FZ	-	ZGDRV	XYZFLD	SOURCE	REFPLA	GTDDRV			
F1	-	DZCOEF	CNVST						
F2	-	DZCOEF	CNVST						
F3	-	DZCOEF							
F4	-	DZCOEF							
G	-	CYLINT							
GAM	-	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLRPL	RCLDPL	DPLRPL	DIFPLT
GEODT	-	RWCOMS							
GEOM	-	GTDDRV							
GEOMC	-	GTDDRV							
GEOMPC	-	GTDDRV							
GETARG	-	ZIJDRV	TSKXQT	RESTR	GETGEO	FLDDRV	EXCDRV	ESPARM	
GETFLD	-	ZGDRV							
GETGEO	-	ZIJDRV	TSKXQT	FLDDRV	EXCDRV				
GETKVV	-	DMPDRV							
GETSEG	-	SEJCON	PUTSEG	GTDDRV	GETGEO	EXCDRV			
GETSYM	-	ZIJDRV	WRTCHK	SYMDEF	STRUP	RESTR	PUTSYM	PUTSEG	GETSEG
		GETARG	EXCDRV	DMPDRV					
GH	-	CYLINT							
GI	-	RFDFT	DFRFT						
GIN	-	FCT							

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GM	-	SCTCYL	SCLRPL	RPLSCL					
GMM	-	SCTCYL	SCLRPL	RPLSCL					
GP	-	RFDFPT	DFRFPT						
GT	-	RFDFPT	DFRFPT						
GTDDRV	-	ZGDRV	TSKXQT						
GTDDT	-	RWCOMS							
GU	-	RFDFPT	DFRFPT						
GV	-	RFDFPT	DFRFPT						
G11	-	ROMBNT							
G1R	-	ROMBNT							
G21	-	ROMBNT							
G2R	-	ROMBNT							
G31	-	ROMBNT							
G3R	-	ROMBNT							
G41	-	ROMBNT							
G4R	-	ROMBNT							
G51	-	ROMBNT							
G5R	-	ROMBNT							
H	-	SCTCYL	SCLRPL	RPLSCL	CYLINT				
HI	-	SHELL							
HP	-	SOURCE							
HT	-	SOURCE							
I	-	ZZXDUM	ZIJDRV	ZGDRV	SYSRTN	STRUP	STATFN	SHELL	SET
		SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RFDFIN	RESTR	QFUN
		PUTSYM	PUTSEG	PRTKJ	POSTIP	POLYRT	PFUN	JNCSUM	IBITCK
		GETSYM	GETKWD	GETGEO	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DFPTCL	CYAXIS	CONVRT	BLKDAT			
IABS	-	TSKXQT	SEJCON	POSTIP	PLAINT	OPNFIL	GETARG	GEOM	DMPDRV
		DFPTCL							
IANG	-	GTDDRV	DIFPLT						
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	GETSYM	FNDREC					
IBASIS	-	ZIJDRV							
IBIT	-	TSKXQT	IBITCK	EXCDRV					
IBITA	-	FLDDRV							
IBITB	-	FLDDRV							
IBITCK	-	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDDRV	EXCDRV	DMPDRV
IBITR	-	DMPDRV							
IBITS	-	ZIJDRV	TSKXQT	SYMDEF					
IBIT1	-	SYMDEF	DMPDRV						
IBIT2	-	DMPDRV							
IBLANK	-	FLDDRV	BLKDAT						
IBLK	-	SEJCON	GETGEO	FLDDRV					
IBLKK	-	GETGEO							
IBLKL	-	WLKBCK							
IBSCER	-	ZGDRV	GTDDRV	GEOM					
IBSCEO	-	GTDDRV							
IBT	-	FLDDRV							
IC	-	SYSRTN	SCLRPL	RPLSCL	GETFLD				
ICALL	-	ROMBNT	POSTIP						

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ICASE	-	PUTSEG							
ICHAR	-	CONVRT							
ICKKPT	-	STRTUP	RESTRT						
ICKFIL	-	WRTCHK							
ICKLOP	-	STRTUP	RESTRT						
ICOL2	-	ZIJDRV	FLDDRV						
ICOM	-	RWCMS							
ICOMMA	-	BLKDAT							
ICOMSV	-	RWCMS							
ICON	-	SEJCON							
ICONJ	-	POLYRT							
ICON1	-	SEJCON							
ICON2	-	SEJCON							
ICORDT	-	FLDDRV							
ICOST	-	FLDDRV							
ICOUNT	-	POLYRT							
ICO1	-	SEJCON							
ICO2	-	SEJCON							
ICSYS	-	GTDDRV	CYAXIS						
ICT	-	GETFLD							
ICTYPE	-	GETFLD	FLDDRV						
ICW	-	EXCDRV	ESPARM						
ICYTAG	-	BLKDAT							
ID	-	SCTCYL	SCLRPL	RPLSCL	FCT	CONVRT			
IDATA	-	POSTIP							
IDATE	-	SYSRTN							
IDAY	-	MAIN							
IDCSYS	-	CYAXIS	BLKDAT						
IDC	-	DIFPLT							
IDFIN	-	BLKDAT							
IDEL	-	DFPTCL							
IDFINS	-	BLKDAT							
IDG	-	DIFPLT							
IDIG	-	BLKDAT							
IDOLAR	-	BLKDAT							
IDP	-	EXCDRV	ESPARM						
IECTAG	-	BLKDAT							
IEN	-	ZGTDV	XYZFLD	REFPLA	GTDDRV				
IEND	-	GTDDRV							
IEN1	-	XYZFLD							
IEOF	-	WRTCHK	STRTUP	RWCMS	RESTRT				
IEQUAL	-	DMPDRV	BLKDAT						
IERNF	-	ZIJDRV	ZGTDV	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYNDEF	STRTUP
		SEJCON	RWFILS	RESTRT	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MOVFIL
		GETSYM	GETKWV	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	DMPDRV
		BLKDAT							
IFDTYP	-	ZGTDV	GTDDRV						
IFILE	-	SYMUPD	RWFILS	PUTSYM	MOVFIL	GETSYM	FNDREC	CLSFIL	
IFIX	-	SYSRTN	STATFN	FLDDRV	ESPARM	DPI	DICOEF		
IFLAG	-	POLYRT							

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IFLDMT	-	FLDDRV							
IFLE	-	MOVFIL							
IFLNAM	-	R4COMS							
IFM	-	GEOM							
IF1	-	PUTSYM							
IF2	-	PUTSYM							
IGDNLA	-	GTDDRV							
IGE0BT	-	FLDDRV							
IGEOM	-	EXCDRV							
IGFM	-	FLDDRV							
IGLIM	-	GTDDRV							
IGNORE	-	BLKDAT							
IGTD	-	GTDDRV							
IGTDGM	-	GTDDRV							
IHIT	-	GEOM							
II	-	ZIJDRV	ZGTDRV	SET	PRTKJ	FLDDRV	EXCDRV	CYAXIS	
IJ	-	SYSRTN	SOURCE	ROMBNT	NTGRAN				
IJMOD	-	PUTSYM	GETSYM	FNDREC					
IJX	-	SOURCE							
IJZLOC	-	ZIJDRV							
IKW	-	PRTKJ							
ILEFT	-	DMPDRV	BLKDAT						
ILINE	-	GTDDRV							
ILOWER	-	PUTSYM	GETSYM	FNDREC					
ILP	-	DMPDRV							
ILIM	-	GETGEO							
IM	-	SOURCE	SOURCE	SHELL	INDIR	IMCDIR	GTDDRV	GEOMC	GEOM
IMAGE	-	SCLRPL	RCLRPL	GEOM	DPLRPL				
IMCDIR	-	GEOMC							
INDCHK	-	WRTCHK	STRUP	STATFN	PUTSYM	BLKDAT			
INDIR	-	RPLRPL	GEOM						
IMINUS	-	DMPDRV	BLKDAT						
IMIS	-	FLDDRV							
IMSRC	-	GTDDRV							
IM1	-	IBITCK							
IMS	-	GTDDRV							
INAME	-	BLKDAT							
INCCHK	-	TSKXQT	SYSCHK						
INCFLD	-	GTDDRV							
INCORE	-	FLDDRV							
IND	-	CONVRT							
INDEX	-	GETKWD	GETGEO	FLDDRV					
INDEX1	-	FLDDRV							
INDEX2	-	FLDDRV							
INDEX3	-	FLDDRV							
INDX	-	SEJCON	FLDDRV						
INDXA	-	TSKXQT	FLDDRV						
INDXB	-	TSKXQT	FLDDRV						
INDXC	-	TSKXQT							
INDXG	-	TSKXQT							

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INDXP1	-	RWCOMS							
INDXWB	-	WLKBCK	TRCEBK	RWCOMS	BLKDAT				
INDXX	-	TSKXQT							
INEX	-	SYMDEF							
INPBLK	-	GTDDRV							
INT	-	PUTKVV	GETARG						
INTARG	-	ZZXDUM	ZIJDRV	TSKXQT	SYMDEF	SET	RESTR	PRTKJ	OPNFIL
		MAIN	GETGEO	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT
INTBCD	-	CONVRT							
INTM	-	RWCOMS							
INTPLT	-	ZGTDRV							
INTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
INTWRD	-	CONVRT							
IOBS	-	ZGTDRV							
IOBS1	-	ZIJDRV	ZGTDRV	FLDDRV	EXCDRV				
IOBS2	-	ZIJDRV	ZGTDRV	FLDDRV	EXCDRV				
IOCKPT	-	WRTCHK	TSKXQT	RWCOMS	RESTR	RDEFIL	PUTSYM	BLKDAT	
IOFILE	-	WRTFIL	WRTCHK	SYMDEF	STRUP	RWCOMS	RDEFIL	PUTSYM	OPNFIL
		MOVFIL	GETSYM	ERROR	CLSFIL	BLKDAT			
IOFLS	-	RWCOMS							
IOP	-	ROTATE							
IOPR	-	DMPDRV							
IORDER	-	PUTSYM	GETSYM	FNDREC					
IOSCRT	-	PUTSYM							
IOSCR1	-	SYMDEF	PUTSYM	BLKDAT					
IOSCR2	-	SYMDEF	PUTSYM	BLKDAT					
IOSTOR	-	SYMDEF	STRUP						
IOSYMB	-	SYMDEF	BLKDAT						
IOTASK	-	BLKDAT							
IPAREN	-	DMPDRV							
IPASS	-	ZIJDRV	TSKXQT	SYMDEF	GETARG	FLDDRV	EXCDRV	DMPDRV	
IPATCH	-	SOURCE	NTGRN						
IPER	-	BLKDAT							
IPERF	-	ZIJDRV	PUTKVV						
IPLTAG	-	ZIJDRV	PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT
IPLUS	-	DMPDRV	BLKDAT						
IPOL	-	ESPARM							
IPR	-	JNC SUM							
IPTBUF	-	BLKDAT							
IPTS	-	BLKDAT							
IPTTBL	-	BLKDAT							
IPWR2	-	IBITCK							
IP217	-	ZIJDRV	ZGTDRV	SET	SEJCON	PUTSEG	PRTKJ	GTDDRV	GETSEG
		GETGEO	FLDDRV	EXCDRV	BLKDAT				
IR	-	PUTSYM	GETSYM						
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							

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IRECND	-	PUTSYM							
IRECNW	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	PUTSYM	GETSYM						
IREC2	-	PUTSYM	GETSYM						
IRIGHT	-	DMPDRV	BLKDAT						
IROWA	-	FLDDRV							
IROWM1	-	PUTSYM	GETSYM						
IRP	-	DMPDRV							
IRSAV	-	STRUP							
IRSTRT	-	STRUP	RESTR	PUTSYM					
IR1	-	RWFILS	PUTSYM	GETSYM					
IR2	-	PUTSYM	GETSYM						
IS	-	PUTSEG							
ISAVE	-	ZIJDRV							
ISC	-	ZGTDRV							
ISCALE	-	BLKDAT							
ISCTYP	-	ZGTDRV	GETFLO						
ISDBON	-	RESTR							
ISDWFL	-	ZGTDRV	GTDDRV						
ISEG	-	PUTSEG	GETSEG	GETGEO	BLKDAT				
ISEG0L	-	GTDDRV							
ISSET	-	SET	PRTKJ						
ISSETB	-	SET	PRTKJ	BLKDAT					
IS6	-	ZGTDRV	PUTSEG						
ISGM	-	RDFPT							
ISGMNT	-	SEJCON							
ISGTBL	-	ZIJDRV	ZGTDRV	WRTCHK	TSKXQT	STRUP	SEJCON	RWFILS	RESTR
		PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
ISHADW	-	ZIJDRV	ZGTDRV						
ISHWRD	-	ZGTDRV							
ISLASH	-	DMPDRV	BLKDAT						
ISN	-	RPLDPL	DIFPLT						
ISOFF	-	ZIJDRV	ZGTDRV	WRTCHK	TSKXQT	STRUP	STATFN	SOURCE	SEJCON
		RWFILS	RWCOMS	ROTATE	RESTR	PUTSYM	PUTSEG	MAIN	GETSYM
		GETSEG	GETARG	FNDREC	EXCDRV	ESPARM	ERROR	DMPDRV	CONVRT
		CLSFIL	BLKDAT						
ISON	-	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRUP	STATOT	STATIN	STATFN	SEJCON	RWFILS	RWCOMS	RESTR
		RDEFIL	PUTSYM	PUTKVV	OPNFIL	NTGRAN	MOVFIL	MAIN	GETSYM
		GETKVV	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	DMPDRV	BLKDAT
ISRCBT	-	FLDDRV							
ISRC	-	GETFLO	ESPARM						
ISSUE	-	MAIN							
ISTAR	-	DMPDRV	BLKDAT						
ISTART	-	ZIJDRV	POLYRT						
ISTAT	-	OPNFIL							
ISTOP	-	ZIJDRV	SET						
ISTRBT	-	RESTR							
ISV	-	PUTSYM	GETSYM	FNDREC					

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ISW	-	PUTSYM	EXCDRV	ESPARM					
ISYMBL	-	POSTIP	BLKDAT						
IT	-	PUTSYM	GETSYM						
ITAG	-	PUTSEG	GTDDRV	GETSEG	GETGEO				
ITAGID	-	ZIJDRV	PUTSEG	GYDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT
ITAG1	-	GETGEO							
ITASK	-	TSKXQT	POSTIP						
ITEM	-	GTDDRV							
ITEMP	-	ZIJDRV	WRTCHK	SYMDEF	RWFILS	RESTR	PUTSYM	MOVFIL	MAIN
		FLDDRV	EXCDRV	DMPDRV	BLKDAT				
ITEMS	-	STATFN	SHELL						
ITG	-	PUTSEG							
ITIME	-	SYSRTN	MAIN						
ITYP	-	ZGTDRV	SEJCON						
ITYPDE	-	BLKDAT							
ITYPE	-	ZIJDRV	ZGTDRV	GETFLD	FLDDRV	EXCDRV			
ITYPPL	-	BLKDAT							
ITYPPT	-	BLKDAT							
ITYPTG	-	BLKDAT							
IU	-	FLDDRV							
IUPPER	-	PUTSYM	GETSYM	FNDREC					
IV	-	RFPFCL	RFDFT	DFRFT	DFPTCL				
IVD	-	RFPFCL	RFDFT	DFRFT					
IVDM	-	RFPFCL							
IVDP	-	RFDFT	DFRFT						
IVS	-	EXCDRV	ESPARM						
IWBSAV	-	RWCOMS							
IWORDS	-	ZXDBUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCERK
		TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STATUP	STATOT	STATIN
		STATFN	SOURCE	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPFCL	RFDFT	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	POLVRT
		OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DFRFT	CYAXIS	CONVRT	CLSFIL	BTAN2
		BLKDAT	ASSIGH						
		IBITCK	FNDREC						
IWRD	-	PUTSYM	GETSYM						
IWRD1	-	WRTCHK	PUTSYM						
IWRTCK	-	ZGTDRV							
IX	-	EXCDRV							
IXCNAM	-	EXCDRV	ESPARM						
IXTYPE	-	PUTSEG							
IX1	-	ZIJDRV	GETGEO						
IYRLOC	-	PUTSEG							
I23	-	ZIJDRV	TRCEBK	FLDDRV					
I1	-	TRCEBK							
I2	-	ZGTDRV	SYSRTN	STRUP	STATFN	SHELL	SET	SEJCON	
J	-								

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		RPLDPL	RFDFTP	PUTSYM	PUTSEG	PRTKJ	POSTIP	JNCSUM	GTCDRV
		GETSYM	GETKWD	GEOMPC	GEOM	FNDREC	FLDDRV	EXCDRV	DFPTWD
		DFPTCL							
JBIAS1	-	SEJCON	BLKDAT						
JBIAS2	-	SEJCON	BLKDAT						
JBIAS3	-	SEJCON	BLKDAT						
JBIT	-	IBITCK							
JBLK	-	SEJCON							
JCALL	-	GETFLD	ESPARM						
JCBIAS	-	BLKDAT							
JCOL	-	ZGTDV							
JCON	-	SEJCON							
JCO1	-	ZGTDV	SEJCON						
JCO2	-	ZGTDV	SEJCON						
JDIG	-	BLKDAT							
JE	-	RFDFTP							
JHOURS	-	SYSRTN							
JIX	-	ZGTDV	SEJCON						
JIZ	-	ZGTDV	SEJCON						
JJ	-	ZGTDV	POLYRT						
JM	-	JNCSUM							
JMINIT	-	SYSRTN							
JMJ	-	JNCSUM							
JNCN	-	RWCOMS							
JNCSUM	-	ZGTDV							
JOX	-	ZGTDV	SEJCON						
JOZ	-	ZGTDV	SEJCON						
JP	-	JNCSUM							
JPJ	-	JNCSUM							
JROM	-	ZGTDV							
JSV	-	FLDDRV							
JSE6	-	SEJCON							
JSG	-	PUTSEG							
JSGMNT	-	SEJCON							
JSRC	-	ZGTDV							
JSRC1	-	ZGTDV	FLDDRV	EXCDRV					
JSRC2	-	ZGTDV	FLDDRV	EXCDRV					
JTASK	-	TSKXQT	ESPARM						
JTG	-	PUTSEG							
JWRD	-	IBITCK							
JX	-	ZGTDV							
K	-	ZIJDRV	SHELL	SET	PRTKJ	IMDIR	IMCDIR	GTDDRV	FRNELS
		FLDDRV	EXCDRV	DFPTCL	CONVRT				
KALL	-	ZIJDRV							
KBAKD	-	PUTSYM	GETSYM	FNDREC					
KBBAND	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBBITS	-	BLKDAT							
KBCPLX	-	ZIJDRV	SYNDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDDRV	EXCDRV
		DMPDRV	BLKDAT						
KDDPRE	-	PUTSYM	GETSYM	FNDREC	BLKDAT				

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KBFFLD	-	FLDDRV	BLKDAT						
KBFULL	-	9LKDAT							
KBGEOM	-	TSKXQT	RWFILS	FLDDRV	EXCDRV	BLKDAT			
KBINTP	-	BLKDAT							
KBLEFT	-	BLKDAT							
KBLOAD	-	BLKDAT							
KBWRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBWFLD	-	FLDDRV	BLKDAT						
KBORDR	-	ZIJDRV	PUTSYM	GETSYM	FNDREC	BLKDAT			
KBPVIT	-	BLKDAT							
KBREAL	-	ZIJDRV	TSKXQT	FLDDRV	EXCDRV	DMPDRV	BLKDAT		
KBSNGL	-	ZIJDRV	BLKDAT						
KBSOLN	-	TSKXQT	FLDDRV	BLKDAT					
KBSRCE	-	FLDDRV	EXCDRV	BLKDAT					
KBSYM	-	BLKDAT							
KBSYMY	-	BLKDAT							
KBTXT	-	BLKDAT							
KBUPRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBZIMP	-	ZIJDRV	BLKDAT						
KCHKPT	-	BLKDAT							
KCODE	-	STRUP							
KCOLS	-	ZIJDRV	FLDDRV						
KGBIT	-	EXCDRV							
KGEOM	-	RWFILS							
KINPUT	-	BLKDAT							
KJ	-	ZIJDRV	ZGDRV	FLDDRV	EXCDRV				
KJFLD	-	ZIJDRV	TSKXQT	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	BLKDAT
KJGTD	-	ZIJDRV	TSKXQT	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	BLKDAT
KJINT	-	ZIJDRV	SET	PRTKJ	GTDDRV	FLDDRV	EXCDRV	BLKDAT	BLKDAT
KJMON	-	ZIJDRV	TSKXQT	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	BLKDAT
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLM	-	SYMUPD							
KLST	-	PRTKJ							
KN	-	PRTKJ							
KOL	-	SYMUPD							
KOLAST	-	SYMUPD	SYNDEF	STRUP	PUTSYM	FNDREC	BLKDAT		
KOLBIT	-	TSKXQT	SYMUPD	SYNDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDDRV
		EXCDRV	DMPDRV	BLKDAT					
KOLCNT	-	TSKXQT	BLKDAT						
KOLCOD	-	GETARG	ESPARM	DMPDRV	BLKDAT				
KOLCOL	-	ZIJDRV	TSKXQT	SYMUPD	SYNDEF	RWFILS	RESTR	PUTSEG	GETGEO
		FLDDRV	EXCDRV	DMPDRV	BLKDAT				
		SYMUPD	SYNDEF	STRUP	PUTSYM	GETSYM	FNDREC	BLKDAT	
KOLFST	-	SYMUPD							
KOLLBL	-	BLKDAT							
KOLLNK	-	ZIJDRV	TSKXQT	SYMUPD	PUTSYM	GETSYM	FNDREC	FLDDRV	EXCDRV
		BLKDAT							
KOLLOC	-	SYMUPD	SYNDEF	STRUP	RWFILS	PUTSYM	GETSYM	FNDREC	DMPDRV
		BLKDAT							
KOLNAM	-	ZIJDRV	TSKXQT	SYMUPD	SYNDEF	RWFILS	RESTR	PUTSYM	GETSYM
		GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT

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KOLROW -	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	EXCDRV	DMPDRV
KOLTIM -	BLKDAT							
KOLTSK -	TSKXQT	BLKDAT						
KOLVAL -	TSKXQT	BLKDAT						
KOUNT -	GETARG	ESPARM	DMPDRV	BLKDAT				
KOUTPT -	TSKXQT							
KPR -	BLKDAT							
KRSTR -	ZGTDRV							
KRSTR -	BLKDAT							
KSYMDF -	BLKDAT							
KSYMP -	ZIJDRV	PUTKVV						
KW -	SET	PUTKVV	GETKVV					
KWA -	FLDDR							
KWABS -	BLKDAT							
KWARG -	BLKDAT							
KWAXIS -	BLKDAT							
KWAND -	BLKDAT							
KWASE -	ZIJDRV							
KWCRE -	BLKDAT							
KWCSB -	BLKDAT							
KWBNDW -	BLKDAT							
KWC -	BLKDAT							
KWC0 -	BLKDAT							
KWC0P -	BLKDAT							
KWCHKP -	RESTR	BLKDAT						
KWCLPS -	BLKDAT							
KWCNJG -	BLKDAT							
KWCNVG -	BLKDAT							
KWCOND -	PUTKVV	GETKVV	BLKDAT					
KWCPNC -	BLKDAT							
KWCPNM -	BLKDAT							
KWCR -	BLKDAT							
KWCS -	BLKDAT							
KWCH -	BLKDAT							
KWCY -	BLKDAT							
KWC1 -	BLKDAT							
KWC2 -	BLKDAT							
KWD -	BLKDAT							
KWDBG -	BLKDAT							
KWDC -	BLKDAT							
KWONAM -	POSTIP							
KWOP -	BLKDAT							
KWOR -	BLKDAT							
KWOT -	BLKDAT							
KWOW -	BLKDAT							
KWOX -	BLKDAT							
KWOY -	BLKDAT							
KWOZ -	BLKDAT							
KWEC -	BLKDAT							
KWEC -	BLKDAT							

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NAME	STATUS	TYPE	DATE	TIME	USER	GROUP	PROJECT	DESCRIPTION	REMARKS
KWED	-	BLKDAT							
KWEI	-	BLKDAT							
KWEND	-	BLKDAT							
KWEP SR	-	PUTKWV	GETKWV	BLKDAT					
KWER	-	BLKDAT							
KWES	-	BLKDAT							
KWESRC	-	BLKDAT							
KWEU	-	BLKDAT							
KWFFLD	-	BLKDAT							
KWFLID	-	BLKDAT							
KWFMTF	-	BLKDAT							
KWFRQ	-	PUTKWV	GETKWV	BLKDAT					
KWGMOT	-	BLKDAT							
KWGT0	-	BLKDAT							
KWILP	-	BLKDAT							
KWINPT	-	BLKDAT							
KWINV	-	BLKDAT							
KWIPE	-	BLKDAT							
KWIRE	-	BLKDAT							
KWIS	-	BLKDAT							
KWLABL	-	BLKDAT							
KWLGLG	-	BLKDAT							
KWLGLN	-	BLKDAT							
KWLGPO	-	BLKDAT							
KWLMT	-	BLKDAT							
KWLMLG	-	BLKDAT							
KWLNLN	-	BLKDAT							
KWLNPO	-	BLKDAT							
KWLOOP	-	BLKDAT							
KWLU	-	BLKDAT							
KWLUD	-	BLKDAT							
KWMAX	-	GETKWD	BLKDAT						
KWMM	-	BLKDAT							
KWMOBL	-	BLKDAT							
KWMXIT	-	BLKDAT							
KWN	-	BLKDAT							
KWNAME	-	ZIJDRV	RESTR	PUTKWV	PRTKJ	POSTIP	GETKWV	GETKWD	FLOORV
		ESPARH	BLKDAT						
KWNDX	-	ZIJDRV							
KWNFLD	-	BLKDAT							
KWNHFL	-	PUTKWV	GETKWV	BLKDAT					
KWNP	-	BLKDAT							
KWNR	-	BLKDAT							
KWOFF	-	TSKXQT	BLKDAT						
KWON	-	TSKXQT	BLKDAT						
KWOUTP	-	BLKDAT							
KWPART	-	BLKDAT							
KWPC	-	BLKDAT							
KWPD	-	BLKDAT							
KWPR	-	BLKDAT							

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KWPHI	-	BLKDAT	
KWPIVT	-	BLKDAT	
KWPL	-	BLKDAT	
KWPLOT	-	BLKDAT	
KWPLSE	-	BLKDAT	
KWPR	-	BLKDAT	
KWPRE	-	BLKDAT	
KWPRGE	-	BLKDAT	
KWPRLC	-	BLKDAT	
KWPRNT	-	BLKDAT	
KWPSN	-	BLKDAT	
KWP1	-	BLKDAT	
KWP2	-	BLKDAT	
KWR	-	BLKDAT	
KWRC	-	BLKDAT	
KWRD	-	BLKDAT	
KWRDP	-	BLKDAT	
KWRDUC	-	BLKDAT	
KWREAD	-	BLKDAT	
KWREPL	-	BLKDAT	
KWRFLC	-	BLKDAT	
KWRITE	-	BLKDAT	
KWRR	-	BLKDAT	
KWRSTR	-	BLKDAT	
KWR1	-	BLKDAT	
KWR2	-	BLKDAT	
KWSC	-	BLKDAT	
KWSCDP	-	BLKDAT	
KWSEGS	-	BLKDAT	
KWSEQ	-	BLKDAT	
KWSET	-	BLKDAT	
KWSIZE	-	BLKDAT	
KWSMDF	-	BLKDAT	
KWSNCS	-	BLKDAT	
KWSOLV	-	BLKDAT	
KWSR	-	BLKDAT	
KWSRDP	-	BLKDAT	
KWSRLC	-	BLKDAT	
KWSTAT	-	TSKXQT	BLKDAT
KWSTNT	-	BLKDAT	
KWSW	-	BLKDAT	
KWTAGS	-	BLKDAT	
KWTOM	-	BLKDAT	
KWTHET	-	BLKDAT	
KWTIME	-	PUTKWV	GETKWV BLKDAT
KWTRAC	-	TSKXQT	BLKDAT
KWTRAN	-	BLKDAT	
KWTYPE	-	BLKDAT	
KWT1	-	BLKDAT	
KWT2	-	BLKDAT	

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KWV	-	BLKDAT							
KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSRC	-	BLKDAT							
KWX	-	BLKDAT							
KWXPND	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	BLKDAT							
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
K1	-	SEJCON							
K2	-	SEJCON							
L	-	INDIR	INCDIR	FLDDRV	ERROR	DMPDRV			
LAMP	-	GTDDRV							
LBDF	-	CYLINT							
LCALLR	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCONS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LCALNM	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCONS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRT	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LCD	-	GEOMPC							
LCNPAT	-	GTDDRV							
LCORNR	-	RPLDPL	GTDDRV	DPLRPL	DIFPLT	DFPTWD			
LCTD	-	GEOMPC	GEOM						
LCYL	-	PLAINT	GTDDRV	GEOMPC	GEOMC	CYLINT			
LDC	-	GTDDRV	GEOMPC						
LDEBUG	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTRAN	REFPLA
		REFCYL	REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMPC
		GEOMC	GEOM	FRNELS	ENDIF	DPLRPL	DPLRCL	DPI	DIFPLT
		DICOEF	CYLINT	CAPINT					
LDF	-	RPLDPL	DPLRPL	DIFPLT					

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LDIFFR	-	RPLDPL	RFDFT	DPLRPL	DIFPLT	DFPTWD			
LDRC	-	GTDDRV	DPLRCL	DFRFT					
LES	-	FLDDRV							
LETR	-	BLKDAT							
LEU	-	FLDDRV							
LFRQFL	-	GTDDRV	GEOMPC	GEOM					
LGDNFL	-	GTDDRV	GEOMPC	GEOM					
LGRND	-	RFPTCL	PLAINT	GTDDRV	GEOM				
LHCT	-	GEOMPC	GEOM						
LMIT	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	PLAINT	INCFLD	GTDDRV	GEOMPC	GEOMC
		GEOM	ENDIF	DPLRPL	DIFPLT	CYLINT	CAPINT		
		GEOMPC	GEOM						
LIHD	-	GTDDRV							
LIMIT	-	POLYRT							
LIMSEG	-	PUTSEG							
LIMWYR	-	SEJCON							
LINDX	-	TSKXQT							
LINK	-	PUTSYM	GETSYM	FNDREC					
LINKA	-	TSKXQT	FLDDRV						
LINKB	-	FLDDRV							
LINKG	-	FLDDRV							
LITNMX	-	BLKDAT							
LITNUM	-	ZZXDUM	ZIJDRV	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS
		RESTR	PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	OPNFIL	MAIN
		GETSYM	GETKVV	GETKWD	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV
		ESPARM	DMPDRV	CONVRT	BLKDAT				
		GETARG	DMPDRV						
LITYP	-	DMPDRV							
LITVAL	-	IMDIR	IMCDIR						
LL	-	FLDDRV							
LMID	-	FLDDRV							
LNKBIT	-	EXCDRV							
LNKEXC	-	GEOM							
LNPL	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT
LNRFLO	-	REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	ENDIF
		DPLRPL	DPLRCL	DIFPLT	DFPTWD	DFPTCL			
LNROT	-	GTDDRV							
LO	-	SHELL							
LOC	-	STATFN	SHELL	PUTSYM	GTDDRV	GETSYM	FNDREC		
LOCARG	-	TSKXQT	GETARG	DMPDRV					
LOCEND	-	PUTSYM							
LOCXC	-	EXCDRV							
LOCYST	-	SYMDEF	PUTSYM	GETSYM	FNDREC				
LOGEO	-	ZIJDRV	GETGEO	ESPARM					
LOCLIT	-	ESPARM	DMPDRV						
LOCLST	-	SYMDEF	PUTSYM	FNDREC					
LOCNAM	-	ESPARM							
LOCNOW	-	STRUP	PUTSYM	GETSYM					
LOCNXT	-	TSKXQT							
LOCSTR	-	PUTSYM	GETSYM						

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LOCTPO	-	RESTRY							
LOCTP1	-	TSKXQT							
LOCTSK	-	TSKXQT	ESPARM						
LOCYRS	-	EXCDRV							
LOCZIJ	-	ZIJDRV							
LOG	-	DICOEF							
LOOP	-	FLDDRV							
LOOPMX	-	TSKXQT	BLKDAT						
LOOP1	-	GETFLD	FLDDRV						
LOOP2	-	GETFLD	FLDDRV						
LOOP3	-	GETFLD	FLDDRV						
LORDER	-	FLDDRV							
LOUT	-	GTDDRV	FLDDRV						
LPLA	-	PLAINT	GTDDRV	GEOMPC	GEOMC	CYLINT			
LPLT	-	GTDDRV							
LPRAD	-	GTDDRV							
LRANG	-	GTDDRV							
LROC	-	RFDFT	RCLDPL	GTDDRV					
LRFC	-	SCTCYL	RFPTCL	REFCYL	GTDDRV				
LRFCT	-	SCTCYL							
LRFI	-	RPLSCL	RPLRCL	GTDDRV					
LRFIT	-	RPLSCL							
LRFS	-	SCLRPL	RCLRPL	GTDDRV					
LRFST	-	SCLRPL							
LROUTN	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRTUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LRTNUM	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRTUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN
		JNCSUM	INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV
		GETKWD	GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		ERROR	ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT
LSAVE	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLK8CK	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP	STATOT	STATIN
		STATFN	SOURCE	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPTCL	RESTRY	REFPLA	REFCYL	REFCAP	REFBP	REFBP	RDEFIL
		RCLRPL	PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	POSTIP	POLYRT
		OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DIFRPT	CYAXIS	CONVRT	CLSFIL	BTAN2

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LSHD	-	BLKDAT	ASSIGN						
LSLOPE	-	GTDDRV	GEOMPC	GEOM					
LSJR	-	RPLOPL	GTDDRV	DPLRPL	DIFPLT	DFPTWD			
LSRCFL	-	INCFLD	GTDDRV						
LSRCFO	-	ZGTDRV	GTDDRV	GEOMPC	GEOM				
LSRFC	-	GTDDRV							
LSTARG	-	GTDDRV	GEOMPC	GEOMC					
LSTASK	-	TSKXQT	POSTIP	EXCDRV					
LSTAT	-	BLKDAT							
		ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCP	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTR	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCSUM
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD
		GETGEO	GETFLO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	BLKDAT	
LSTCHK	-	SYSCHK							
LSTCOL	-	LUSTAT	BLKDAT						
LSTCSY	-	CYAXIS	BLKDAT						
LSTD	-	PLAIN	GEOMPC	GEOM					
LSTDAT	-	BLKDAT							
LSTFNC	-	BLKDAT							
LSTINP	-	BLKDAT							
LSTINT	-	BLKDAT							
LSTIOD	-	BLKDAT							
LSTMOD	-	STRUP	STATFN						
LSTS	-	PLAIN	GEOMPC	GEOM					
LSTSYS	-	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTRT	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
LSTTPF	-	TSKXQT	BLKDAT						
LSTWRD	-	PUTSYM	GETSYM						
LSURF	-	RPLOPL	GIDDRV	GEOMPC	GEOM	DW	DPLRPL	DIFPLT	
LTEST	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLOPL	ROTRAN	REFPLA
		REFCYL	REFCAP	RCLRPL	RCLDPL	PLAIN	INCFLD	GTDDRV	GEOMPC
		GEOMC	GEOM	FRNELS	ENDIF	DPLRPL	DPLRCL	DPI	DIFPLT
		DICOEF	CYLINT	CAPINT					
LTRACE	-	TSKXQT	STATOT	STATIN	BLKDAT				
LTRF	-	SCTCYL	REFCYL						
LTRFI	-	RPLSCL	RPLRCL						
LTRFJ	-	SCLRPL	RCLRPL						
LUDBUG	-	RESTR	POSTIP	BLKDAT					
LUFIL	-	STRUP	RESTR	OPNFIL					
LUNIT	-	WRTFIL	RDEFIL						
LUPRNT	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK
		TANG	SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN
		SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLDPL
		RFPTCL	RFDFPT	RESRT	REFPLA	REFCAP	REFBP	RDEFIL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT	OPNFIL	MOVFIL

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	MAIN	INCFLD	GETSYM	GETSEG	GETKWV	GETGEO	GETFLD	GETARG
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ENDIF	DPLRPL	DPLRCL
LUTASK -	DMPDRV	DIFPLT	DFRFT	CYAXIS	9LKDAT	ASSIGN		
LVJ -	LUSTAT	BLKDAT						
LWRITE -	SCTCYL	SCLRPL	RPLSCL					
LWRUPR -	GTDDRV							
LX -	PUTSYM	GETSYM	FNDREC					
L1 -	FLDDRV							
L123 -	GETFLD	FLDDRV						
L2 -	FLDDRV							
L3 -	GETFLD	FLDDRV						
M -	GETFLD	FLDDRV						
MACHIN -	ZIJDRV	ZGTDRV	SHELL	POLYRT				
MANTSA -	BLKDAT							
MANTSA -	IBITCK	BLKDAT						
MASK -	FLDDRV							
MATNAM -	PUTSYM	GETSYM	FNDREC					
MATOP1 -	DMPDRV							
MATOP2 -	DMPDRV							
MAXBLK -	TSKXQT	PUTSEG	GETSEG	GETGEO				
MAXCOS -	BLKDAT							
MAXCON -	ZGTDRV	SEJCON	JNC SUM	BLKDAT				
MAXCSY -	BLKDAT							
MAXCYL -	BLKDAT							
MAXDEF -	BLKDAT							
MAXECP -	BLKDAT							
MAXPLT -	BLKDAT							
MAXPTS -	BLKDAT							
MAXRAD -	BLKDAT							
MAXSEG -	TSKXQT	SEJCON	PUTSEG	GTDDRV	GETSEG	BLKDAT		
MAXSTR -	SYMDEF	PUTSYM	BLKDAT					
MAXWRD -	PUTSYM	GETSYM						
MAXO -	SYMDEF	PUTSYM						
MC -	RPLDPL	RFDFT	REFCAP	GTDDRV	GEOMC	GEOM	DPLRPL	DIFPLT
MCINX -	CAPINT							
MD -	GTDDRV	GEOMC						
MDLE -	CAPINT							
ME -	RWCOMS							
MEC -	RPLDPL	RFDFT	RCLDPL	PLAINT	GTDDRV	GEOMPC	GEOM	DPTNFW
MEE -	DPLRPL	DPLRCL	DIFPLT	DFRFT	DFPTWD			
MEH -	RPLDPL	RCLDPL	GEOMPC	GEOM	DFPTWD			
MEINX -	GEOM							
MEN -	GEOM							
MEP -	GTDDRV	GEOMPC						
MES -	GEOMPC	GEOM						
MEX -	RPLDPL	RFDFT	RCLDPL	PLAINT	GTDDRV	GEOMPC	GEOM	DPLRPL
MF -	DIFPLT	DFPTWD						
	GEOM							
	PLAINT							
	GTDDRV	GEOMPC	GEOM					
	GEOM							

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MFC	-	GEOM							
MFM	-	GEOM							
MFS	-	GEOM							
MFY	-	GEOM							
MH	-	PLAINT							
MI	-	POLYRT							
MIND	-	ZIJDRV	PUTSYM	PUTSEG	GTDDRV	GETSYM	FNDREC	FLDDRV	
MJ	-	GEOMPC	GEOM	DFRPT					
MKMX	-	BLKDAT							
ML	-	GEOM							
MM	-	POLYRT							
MME	-	PLAINT	GEOM						
MMP1	-	POLYRT							
MN	-	POLYRT	FNDREC						
MOD	-	ZIJDRV	ZGTDRV	STRUP	SEJCON	PUTSEG	IBITCK	GTDDRV	GETGEO
		GETFLD	FLDDRV						
MODCHK	-	WRTCHK	STRUP	STATFN	PUTSYM	BLKDAT			
MODLST	-	STRUP	STATFN	BLKDAT					
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STRUP	STATFN	MAIN				
MODNOW	-	STRUP							
MORE	-	PUTSYM	GETSYM	FNDREC					
MOVE	-	MOVFIL							
MOVFIL	-	STRUP	PUTSYM	GETSYM					
MOVWRD	-	PUTSYM	MOVFIL						
MP	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	RFDFPT	REFPLA
		REFBP	RCLRPL	RCLOPL	PLAINT	INDIR	IMAGE	GTDDRV	GEOMPC
		GEOM	DPTNFW	DPLRPL	DPLRCL	DIFPLT	DFRPT	DFPTWD	
MPH	-	PLAINT	GEOM	DIFPLT					
MPINX	-	GTDDRV	GEOMPC	GEOM					
MPP	-	RPLRPL	PLAINT	GTDDRV	GEOM				
MPPINX	-	GTDDRV	GEOM						
MPX	-	GTDDRV	GEOMPC	GEOM					
MPXR	-	RFPTCL	PLAINT	GTDDRV	GEOM				
MQ	-	GEOM							
MR	-	RPLDPL	RFPTCL	GTDDRV	GEOM	DPLRPL			
MRINX	-	GTDDRV							
MSAVE	-	STATOT	STATIN						
MTASK	-	ESPARM							
MULJNC	-	SEJCON							
MULOPR	-	DMPDRV							
MV	-	GEOM							
MXANCT	-	BLKDAT							
MXARGS	-	TSKXQT	BLKDAT						
MXARGT	-	BLKDAT							
MXCDFG	-	BLKDAT							
MXCYAR	-	BLKDAT							
MXDPT	-	BLKDAT							
MXECAR	-	BLKDAT							
MXEXFP	-	BLKDAT							

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MXEXPD	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	WLKBACK	RWCOMS	BLKDAT					
M1	-	GETFLD							
M2	-	GETFLD							
N	-	ZIJDRV	ZGTDV	TSKXQT	SYMUPD	SYNDEF	STATOT	STATIN	SMAGNF
		SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTRAN	RFPTCL
		RFDFPT	RFDFIN	REFPLA	REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL
		QFUN	PUTSYM	POSTIP	POLYRT	PLAINT	PFUN	MOVFIL	LUSTAT
		INCFLD	INDIR	IMAGE	GTDDRV	GETARG	GEOMPC	GEOMC	GEOM
		FLDDRV	ENDIF	DPTNFW	DPLRPL	DPLRCL	DPI	DMPDRV	DIFPLT
		DICOEF	DFRFP	DFPTWD	DFPTCL	CAPINT			
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FLDDRV			
NAM	-	RESTR	FLDDRV						
NAMCOM	-	RWCOMS							
NAMCPF	-	RESTR							
NAMDAT	-	TSKXQT							
NAMDEF	-	BLKDAT							
NAME	-	ZZXDH	SYMDEF	STRTUP	STATOT	STATIN	RWFILS	RWCOMS	RESTR
		PUTKVV	PRTKJ	POSTIP	GETKVV	GETKWD	FLDDRV	ESPARM	
NAMEA	-	FLDDRV							
NAMEB	-	TSKXQT	FLDDRV						
NAMEC	-	TSKXQT							
NAMEG	-	ESPARM							
NAMESH	-	ZIJDRV							
NAMEX	-	TSKXQT							
NAMEXC	-	EXCDRV							
NAMEXP	-	ZIJDRV							
NAMEYR	-	ZIJDRV	GETGEO						
NAMEZ	-	ZIJDRV							
NAMFIL	-	DMPDRV							
NAMGEO	-	ZIJDRV	ZGTDV	TSKXQT	GETGEO	GETFLD	FLDDRV	ESPARM	
NAMGFH	-	FLDDRV							
NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPTS	-	BLKDAT							
NAMRTN	-	WLKBACK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC	EXCDRV				
NAMSB	-	WLKBACK	ASSIGN						
NAMSEG	-	ZIJDRV	TSKXQT	RESTR	PUTSEG	GETSEG	GETGEO	BLKDAT	
NAMSHD	-	ZIJDRV							

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NAMSRC -	FLDDRV	EXCDRV	ESPARM					
NAMSUB -	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN
	SYSCHK	SYMUPD	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SOURCE
	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS
	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT	RESTRY	REFPLA
	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV
	PRTKJ	POSTIP	OPNFIL	NTGRAN	MOVFIL	MAIN	JNC SUM	INTPLT
	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETFLO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF
	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS	CNVST	CLSFIL	ASSIGN
NAMSYM -	SYMUPD	GETARG	DMPDRV					
NAMTSK -	TSKXQT	POSTIP	BLKDAT					
NAMYRS -	ZIJDRV	EXCDRV						
NAMZIJ -	ZIJDRV							
NANDB -	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF
	DPLRCL							
NARGMX -	BLKDAT							
NARGTB -	TSKXQT	RESTRY	POSTIP	ESPARM	BLKDAT			
NARITH -	BLKDAT							
NBIT -	EXCDRV							
NBITA -	FLDDRV							
NBITS -	IBITCK							
NBITWD -	RWFILS	PUTSYM	GETSYM	FNDREC				
NBLANK -	BLKDAT							
NBS -	CONVRT							
NBUFS -	MOVFIL							
NBYTES -	CONVRT	BLKDAT						
NBYTSZ -	ZIJDRV	FLDDRV	CONVRT	BLKDAT				
NC -	ZIJDRV	REFCAP	GEOMC	FLDDRV	EXCDRV	ENDIF	DFPTCL	CAPINT
NCALL -	ZGTDV							
NCARD -	LUSTAT	BLKDAT						
NCARDS -	BLKDAT							
NCC -	ENDIF	DFPTCL						
NCCLAS -	BLKDAT							
NCBNOX -	POSTIP							
NCELLS -	EXCDRV							
NCHAR -	CONVRT	BLKDAT						
NCIX -	ZGTDV	SEJCON						
NCIZ -	ZGTDV	SEJCON						
NCH -	JNC SUM							
NCODE -	GETKWD	BLKDAT						
NCODES -	ZIJDRV	TSKXQT	RESTRY	PUTKVV	PRTKJ	POSTIP	GETKVV	GETKWD
	GETGEO	FLDDRV	EXCDRV	ESPARM	BLKDAT			
NCOL -	ZIJDRV	ZGTDV	JNC SUM	BLKDAT				
NCOLE -	EXCDRV							
NCOLS -	ZIJDRV	SYMDEF	FLDDRV	EXCDRV				
NCOL1 -	SYMDEF	DMPDRV						
NCOL2 -	DMPDRV							
NCOM -	BLKDAT							
NCOMCH -	BLKDAT							

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NCOMMA	-	BLKDAT							
NCOMSZ	-	RWCONS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCORN	-	GTDDRV	GETGEO						
NCOX	-	ZGTDV	SEJCON						
NCOZ	-	ZGTDV	SEJCON						
NCP	-	JNCSUM							
NDATBL	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STRUP	RWFILS	RESTR	PUTSYM
		POSTIP	GETSYM	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM
		DMPDRV	BLKDAT						
NDATMX	-	SYMDEF	BLKDAT						
NDEBUF	-	BLKDAT							
NDEBUD	-	RESTR							
NDF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL
		BLKDAT							
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDTASK	-	BLKDAT							
NDX	-	ZIJDRV	TSKXQT	PUTKVV	GETKVV	FLDDRV			
NDXARG	-	ZIJDRV	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV		
NDXBLK	-	SEJCON	RESTR	PUTSEG	GTDDRV	GETSEG	GETGEO		
NDXINR	-	FLDDRV							
NDXKWC	-	EXCDRV	ESPARM						
NDXKWD	-	PUTKVV	EXCDRV	ESPARM					
NDXKWS	-	EXCDRV	ESPARM						
NDXKYW	-	DMPDRV							
NDXMID	-	FLDDRV							
NDXNAM	-	POSTIP							
NDXNCD	-	RESTR							
NDXOUT	-	FLDDRV							
NDXTSK	-	POSTIP							
NE	-	EXCDRV							
NEED	-	ZIJDRV	SYMDEF	FLDDRV					
NEL	-	ZIJDRV	FLDDRV						
NELRW	-	ZIJDRV	FLDDRV						
NELTTL	-	ZIJDRV	FLDDRV						
NENDCO	-	BLKDAT							
NEOFLG	-	BLKDAT							
NERCL1	-	BLKDAT							
NERCOD	-	GETKWD	BLKDAT						
NERCON	-	BLKDAT							
NERDPN	-	BLKDAT							
NEREOF	-	BLKDAT							
NEREXD	-	BLKDAT							
NEREXF	-	BLKDAT							
NEREXP	-	BLKDAT							

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NERINT	-	BLKDAT							
NERNAM	-	BLKDAT							
NEWDAT	-	SYMUPD							
NEWNAM	-	SYMUPD							
NEWSYM	-	SYMDEF							
NFD	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT	REFPLA
		REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	ENDIF	DPLRPL
		DPLRCL	DIFPLT	DFPTWD	DFPTCL				
NFILE	-	RWFILS							
NFILES	-	SYMDEF	RWCOMS	PUTKWV	GETKWV	ERROR	BLKDAT		
NFINCD	-	RESTR	BLKDAT						
NFN	-	GEOM							
NFRAC	-	BLKDAT							
NFRQ	-	ESPARM							
NG	-	FLDDRV							
NGEOM	-	ESPARM							
NI	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	GTDDRV	GEOMC
		GEOM							
NILEGL	-	BLKDAT							
NINC	-	FLDDRV							
NINT	-	BLKDAT							
NITEMS	-	STATFN	SHELL						
NJ	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP	GTDDRV	GEOMC
		GEOM							
NLETR	-	BLKDAT							
NLOOPS	-	TSKXQT	POSTIP	BLKDAT					
NM	-	ROMBNT							
NMARGS	-	POSTIP							
NMLITN	-	POSTIP							
NMLOOP	-	POSTIP							
NMNAMS	-	BLKDAT							
NMSPTR	-	BLKDAT							
NMSYMB	-	POSTIP							
NMTASK	-	POSTIP							
NMTIMS	-	BLKDAT							
NMWRDS	-	RWCOMS							
NOBS	-	FLDDRV							
NOEND	-	BLKDAT							
NOGOFB	-	TSKXQT	RWCOMS	MAIN	FLDDRV	DMPDRV	BLKDAT		
NOP	-	TSKXQT	ROTATE						
NOPCOD	-	ZIJDRV	TSKXQT	RESTR	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV
		BLKDAT							
NOPNAM	-	CONVRT							
NOSTAT	-	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN
		STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFTCL	RFDFT	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		OPNFIL	NTGRAN	MOVFIL	MAIN	JNCSUM	INTPLT	INCFLD	IBITCK

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	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG
	GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
	DPLRCL	DMPDRV	DIFPLT	DFRFT	CYAXIS	CONVRT	CLSFIL	BTAN2
NOTASK -	BLKDAT	ASSIGN						
NP -	BLKDAT	PUTSYM						
NPAREN -	ZIJDRV							
NPARGL -	BLKDAT							
NPATCH -	POSTIP							
NPASV -	ZIJDRV	GTDDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT		
NPDATA -	SYNDEF							
	SYNUPD	SYNDEF	STRTUP	RWFILS	RESTRT	PUTSYM	POSTIP	GETSYM
	GETARG	FNDREC	FLDDRV	DMPDRV				
NPEAR -	BLKDAT							
NPEDPC -	BLKDAT							
NPEDPL -	BLKDAT							
NPEDRM -	BLKDAT							
NPEIFO -	BLKDAT							
NPEKWD -	BLKDAT							
NPELAB -	BLKDAT							
NPELIT -	BLKDAT							
NPELNL -	BLKDAT							
NPELOO -	BLKDAT							
NPELOP -	BLKDAT							
NPELST -	BLKDAT							
NPENQI -	BLKDAT							
NPENOM -	BLKDAT							
NPENRG -	BLKDAT							
NPENTK -	BLKDAT							
NPENUM -	BLKDAT							
NPERGE -	BLKDAT							
NPEROD -	BLKDAT							
NPESEN -	BLKDAT							
NPESEX -	BLKDAT							
NPESYM -	BLKDAT							
NPETSK -	BLKDAT							
NPLITN -	POSTIP							
NPLOOP -	POSTIP							
NPRBUF -	RWFILS	NOVFIL						
NPRDEF -	BLKDAT							
NPRELM -	RWFILS	PUTSYM	GETSYM	FNDREC				
NPRFPT -	FLDDRV							
NPRPRT -	PUTSYM	GETSYM	FNDREC					
NPRPT -	BLKDAT							
NPRREC -	TSKXQT	RWFILS	PUTSYM	GETSYM	FNDREC			
NPRSEG -	TSKXQT	PUTSEG	BLKDAT					
NPRSER -	BLKDAT							
NPRSYM -	ZIJDRV							
NPSAV -	DMPDRV							
NPTASK -	TSKXQT	RESTRT	POSTIP					
NPTBUF -	BLKDAT							

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NR	-	ZIJDRV	EXCDRV						
NREAD	-	WRTCHK	STRUP	RWFILS	RWCOMS	RESTRT			
NRECS	-	RWFILS	PUTSYM						
NRNAMS	-	STATFN	BLKDAT	ASSIGN					
NROW	-	ZGDRV	JNC SUM						
NROWE	-	EXCDRV							
NROWS	-	ZIJDRV	SYMDEF	FLDDRV	EXCDRV				
NROWX	-	ZIJDRV	FLDDRV						
NROW1	-	SYMDEF	DMPDRV						
NROW2	-	DMPDRV							
NRSUBS	-	STATFN	RWCOMS	BLKDAT					
NRTIMS	-	STATIN	STATFN	RWCOMS	BLKDAT				
NS	-	ZIJDRV	SYMUPD	SYMDEF	RWFILS	ROMBNT	GETGEO	FLDDRV	EXCDRV
NSCNER	-	GETKWD	BLKDAT						
NSH	-	CONVRT							
NSHAD	-	ZGDRV							
NSHADW	-	ZIJDRV							
NSHAD1	-	ZIJDRV							
NSHFTS	-	BLKDAT							
NSHIFT	-	ZIJDRV	FLDDRV						
NSYMBL	-	SYMUPD	SYMDEF						
NT	-	TSKXQT	ROMBNT						
NTAB	-	GETKWD	BLKDAT						
NTALPH	-	RESTRT	POSTIP	BLKDAT					
NTAN	-	GETFLD							
NTANF	-	ZGDRV							
NTANS	-	ZGDRV							
NTASK	-	BLKDAT							
NTASKE	-	EXCDRV							
NTASKS	-	BLKDAT							
NTASKV	-	EXCDRV							
NTDM	-	BLKDAT							
NTOPF1	-	BLKDAT							
NTOPF2	-	BLKDAT							
NTEMPS	-	ZIJDRV	RWFILS	PUTSYM	MOVFIL	FLDDRV	EXCDRV	BLKDAT	
NTEND	-	BLKDAT							
NTERR	-	BLKDAT							
NTFLPT	-	ZIJDRV	GETARG	FLDDRV	EXCDRV	ESPARM	DMPDRV	BLKDAT	
NTGRAN	-	ROMBNT							
NTINT	-	TSKXQT	POSTIP	GETARG	DMPDRV	BLKDAT			
NTKEYW	-	POSTIP	GETKWD	ESPARM	DMPDRV	BLKDAT			
NTPARG	-	GETARG							
NTPGTD	-	BLKDAT							
NTRBLK	-	PUTSEG							
NTS	-	ROMBNT							
NTSFMT	-	BLKDAT							
NTSKMX	-	BLKDAT							
NTSKTB	-	TSKXQT	RESTRT	POSTIP	ESPARM	BLKDAT			
NTSYMB	-	ZIJDRV	POSTIP	GETGEO	GETARG	EXCDRV	DMPDRV	BLKDAT	
NTTASK	-	BLKDAT							

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NU	-	GETFLD	FLDDRV						
NUM	-	GTDDRV							
NUMARG	-	ZZXDUM	TSKXQT	SET	FLDDRV	DMPDRV	BLKDAT		
NUMBAS	-	ZIJDRV							
NUMBLK	-	PUTSEG	GETSEG						
NUMCHK	-	WRTCHK	RESTR	BLKDAT					
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCYL	-	GTDDRV	GETGEO	BLKDAT					
NUMECP	-	GTDDRV	GETGEO	BLKDAT					
NUMGTD	-	ZIJDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT			
NUMLFT	-	RDEFIL							
NUMPLT	-	GTDDRV	GETGEO	BLKDAT					
NUMPTS	-	BLKDAT							
NUMREC	-	RWFILS	RESTR						
NUMROW	-	PUTSYM	GETSYM	FNDREC					
NUMSB	-	STATOT	STATIN	ASSIGN					
NUMSEG	-	SEJCON	PUTSEG	GTDDRV	GETGEO	BLKDAT			
NUMSUB	-	ZZXDUM	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN
		SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SOURCP
		SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS
		RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT	RESTR	REFPLA
		REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKVV
		PRTKJ	POSTIP	OPNFIL	MOVFIL	MAIN	JNCsum	INTPLT	INCFLD
		IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETFLD
		GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	CYAXIS	ASSIGN			
NUMSYM	-	GETARG							
NUMTSK	-	TSKXQT	OPNFIL	ESPARM					
NUMWIP	-	BLKDAT							
NUMWRD	-	SYMDEF	ROMBNT						
NUMYRS	-	EXCDRV							
NVAL	-	TSKXQT	STRUP	RWFILS	RESTR	PUTKVV	POSTIP	MAIN	GETKVV
		GETKWD	DMPDRV	BLKDAT					
NVALMX	-	GETKWD	BLKDAT						
NV	-	CONVRT							
NVDSIZ	-	CONVRT	BLKDAT						
NVIRE	-	ZIJDRV	ZGTDRV	SEJCON	GTDDRV	GETGEO	FLDDRV	EXCDRV	BLKDAT
NWORD	-	CONVRT							
NWORDS	-	WRTFIL	RDEFIL						
NX	-	ROMBNT							
NXTARG	-	POSTIP	FLDDRV	DMPDRV					
NXTSYM	-	SYMDEF	BLKDAT						
NXTTSK	-	TSKXQT							
NXTWRD	-	CONVRT							
NY	-	ZIJDRV	EXCDRV						
NYRSYM	-	ZIJDRV							
NZ	-	ZIJDRV							
NO	-	GETSYM							
NI	-	ZIJDRV	PUTSYM						

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N2	-	PUTSYM							
OPNFIL	-	WRTCHK	SYNDEF	STATFN	RWFILS	PUTSYM			
ORIGIN	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	GTDDRV	ENDIF	
P	-	XYZFLD	DFPTWD	DFPTCL					
PARTB	-	RWCOMS							
PB	-	IMDIR	IMCDIR						
PCNT	-	STATFN							
PD	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PDCR	-	GEOMPC	DFRFPT						
PFUN	-	SCTCYL	SCLRPL	RPLSCL					
PH	-	TPNFLD	SOURCE	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	INCFLD
		ENOIF	DW	DPLRPL	DPLRCL	DIFPLT			
PHCN	-	RDFPT							
PHCR	-	RDFPT	GEOM	DFRFPT					
PHE	-	RFPTCL							
PHEDR	-	ENOIF							
PHEP	-	RFPTCL							
PHER	-	ENOIF							
PHEX	-	ENOIF							
PHEY	-	ENOIF							
PHEZ	-	ENOIF							
PHI	-	ROTATE	GETFLD	EXCDRV	ESPARM				
PHICR	-	RCLDPL							
PHIR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	REFPLA
		REFCYL	REFBP	RCLRPL	ENDIF	DPLRPL	DPLRCL	DIFPLT	
PHISV	-	ROTATE							
PHJR	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
PHJR1	-	SCLRPL							
PHJR2	-	SCLRPL							
PHO	-	SOURCP	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
PHOR	-	RFPTCL	RDFPT	DFRFPT					
PHORB	-	RFPTCL							
PHORBP	-	RFPTCL							
PHORP	-	RFPTCL	RDFPT	DFRFPT					
PHP	-	DW							
PHPR	-	RFPTCL	DZCOEF						
PHR	-	DZCOEF							
PHS	-	SOURCE							
PHSMAG	-	FLDDRV							
PHSPR	-	RFPTCL	RDFPT	DFRFPT					
PHSR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	RDFPT
		REFPLA	REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	NFD	INCFLD
		GTDDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT	DFRFPT	DFPTWD	CYLINT
PHSRM	-	DFPTCL							
PHSR1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
PHSR2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
PHWAR	-	GEOM							
PHWR	-	RDFPT	GEOMPC	DFRFPT					
PI	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	RFPTCL
		RDFPT	REFCYL	RCLRPL	RCLDPL	2FUN	PLAINT	PFUN	GTDDRV

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		GEOM	FRNELS	FKARG	FFCT	ENDIF	DZCOEF	DPLRPL	DPLRCL
		DPI	DIFPLT	DICOEF	DFRPT	BTAN2	BLDATA	BEXP	
PJ	-	PFUN							
PLAINT	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	GEOM	ENDIF	DPLRPL
		DPLRCL	DIFPLT						
PMR	-	DZCOEF							
PN	-	IMDIR	IMCDIR						
POLYRT	-	RFDFIN	DFPTCL						
POSTIP	-	RESTR							
PP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PPBO	-	SOURCP							
PPHO	-	SOURCP							
PPR	-	DZCOEF							
PR	-	PFUN							
PRTKJ	-	ZIJDRV	FLDDRV	EXCDRV					
PS	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSD	-	RPLDPL	DPLRPL	DIFPLT					
PSI	-	ROTATE							
PSISV	-	ROTATE							
PSO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSOD	-	RPLDPL	DPLRPL	DIFPLT					
PSOR	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PSR	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
PT	-	IMDIR	IMCDIR						
PTIME	-	TICKEK	STATOT	STATIN					
PTTBLE	-	BLKDAT							
PUTKVV	-	DMPDRV							
PUTSYM	-	ZIJDRV	WRCHK	STRUP	RWFILS	RESTR	PUTSEG	GETSEG	FLDDRV
		EXCDRV	DMPDRV						
PV	-	RFDFPT							
PWSRC	-	GTDDRV							
PWSRCO	-	GTDDRV							
Q	-	PFUN	POLYRT	PFUN	FCT	DFPTCL			
QC	-	DFPTCL							
QD	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
QDM	-	RCLDPL							
QFUN	-	SCTCYL	SCLRPL	RPLSCL					
QI	-	RPLDPL	RCLDPL	QFUN	DPLRPL	DPLRCL	DIFPLT		
QR	-	QFUN							
QRH	-	RCLDPL							
QR11	-	RCLDPL							
QR12	-	RCLDPL							
QR22	-	RCLDPL							
R	-	ZGTDRV	SOURCE	PUTSEG	POLYRT	GETFLD	EXCDRV	ESPARM	ENDIF
		OW	DPI	DMPDRV	DICOEF	DFPTCL			
RAD	-	BLKDAT							
RADCV	-	SCTCYL	SCLRPL	RPLSCL					
RAG	-	DPI	DICOEF						
RAPPRX	-	ZIJDRV	ZGTDRV						

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RC	-	GEOMPC	DFPTCL						
RCLDPL	-	GTDDRV							
RCLRPL	-	SCLRPL							
RCS	-	SOURCE							
RD	-	PLAINT							
RDEFIL	-	STRTUP	RWFILS	RWCOMS	RESTR	PUTSYM	MOVFIL	GETSYM	
RDODG	-	FLDDRV							
RDY	-	SOURCP	SOURCE						
RE	-	SOURCP	SOURCE						
READ	-	GEOMPC	DFPTWD						
REAL	-	RWCOMS	RDEFIL	LUSTAT					
		ZGTDRV	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	RFDFIN	REFPLA
		REFCAP	RCLDPL	POLYRT	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT
		DFPTCL	BEXP	BABS					
REFBP	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	RCLRPL	DPLRPL
REFCAP	-	GTDDRV							
REFCYL	-	SCTCYL							
REFH	-	ZIJDRV	ZGTDRV	STRTUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
REFPLA	-	GTDDRV							
REFV	-	ZIJDRV	ZGTDRV	STRTUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
RETURN	-	ZXDUM	ZIJDRV	ZGTDRV	XYZFLD	WRTFIL	WRTCHK	WLKBCK	TSKXQT
		TRCEBK	TPNFLO	TICHEK	TANG	SYSRTN	SYSCHK	SYMUPD	SYMDEF
		STATUP	STATOT	STATIN	STATFN	SOURCP	SOURCE	SMAGNF	SHELL
		SET	SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL
		RPLRCL	RPLDPL	ROTRAN	ROTATE	ROMBNT	RFPTCL	RFDFTP	RFDFIN
		RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL	RCLRPL	RCLDPL
		RADCY	QFUN	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		PLAINT	PFUN	OPNFIL	NTGRAN	NFD	NANDB	MOVFIL	LUSTAT
		JNCSUM	INTPLT	INCFLD	IMDIR	IMCDIR	IMAGE	IBITCK	GTDDRV
		GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLO	GETARG	GEOMPC
		GEOMC	GEOM	FUNI	FRNELS	FNDRET	FLDDRV	FKY	FKARG
		FFCT	FCT	EXCDRV	ESPARM	ERROR	ENDIF	DZCOEF	DW
		DQG32	DPINFW	DPLRPL	DPLRCL	DPI	DMPDRV	DIFPLT	DICOEF
		DFRFTP	DFPTWD	DFPTCL	CYLINT	CYAXIS	CONVRT	CNVST	CLSFIL
		CAPINT	BTAN2	BLOG10	BEXP	BABS	ASSIGN		
RFDFIN	-	RPLRCL	REFCYL	RCLRPL					
RFDFTP	-	RCLDPL	DPLRCL						
RFPTCL	-	RPLRCL	REFCYL	RCLRPL					
RG	-	SCTCYL	REFCYL	RCLDPL	RADCY	ENDIF	DPLRCL		
RGAE	-	ENDIF							
RGF	-	SCTCYL	SCLRPL	RPLSCL					
RGJ	-	SCTCYL	SCLRPL	RPLSCL					
RGII	-	RPLSCL	RPLRCL						
RGJ	-	SCLRPL	RCLRPL						
RGT	-	RADCY							
RHA	-	DPLRCL							
RHB	-	DPLRCL							
RHIE	-	RCLDPL							

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RH11	-	RCLDPL	DPLRCL						
RH12	-	RCLDPL	DPLRCL						
RHK	-	SOURCE	NTGRAN						
RHO	-	SOURCE	CAPINT						
RHOE	-	TANG	CYLINT						
RHOS	-	TANG	CYLINT						
RHOT	-	CAPINT							
RHO1	-	SCTCYL	REFCYL	RCLDPL	ENDIF	DPLRCL			
RHO11	-	RPLSCL	RPLRCL						
RHO1J	-	SCLRPL	RCLRPL						
RHO2	-	SOURCE	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRCL	
RHS	-	SCTCYL	SCLRPL	RPLSCL					
RH12	-	DPLRCL							
RITEMS	-	STATFN							
RJ	-	POLYRT							
RJP	-	POLYRT							
RJ1	-	SOURCE							
RK	-	SOURCE	NTGRAN						
RKB	-	SOURCE							
RKB2	-	SOURCE	NTGRAN						
RK2	-	NTGRAN							
RM	-	DPLRPL	DIFPLT	DFPTCL					
RHAG	-	RFDFT							
ROMBNT	-	SOURCE							
ROOT	-	DFPTCL							
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
ROTATE	-	CYAXIS							
ROTRAN	-	GTDDRV							
ROX	-	CYAXIS							
ROY	-	CYAXIS							
ROZ	-	CYAXIS							
RPD	-	ENDIF	DPI	DICOEF	DFPTCL	3LDATA			
RPE	-	DFPTWD							
RPLDPL	-	GTDDRV							
RPLRCL	-	RPLSCL							
RPLRPL	-	GTDDRV							
RPLSCL	-	GTDDRV							
RRK2	-	NTGRAN							
RRK3	-	NTGRAN							
RRN	-	ENDIF							
RSO	-	ZGTDRV							
RSTART	-	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
RSTRTA	-	ZIJDRV	ZGTDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT			
RT	-	SCTCYL	SCLRPL	RPLSCL	RFDFIN	RADCV	POLYRT		

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RTINS -	STATOT	STATIN	BLKDAT					
RTP -	POLYRT							
RWCOMS -	WRTCHK	STRUP	RESTR					
RWFILS -	WRTCHK	STRUP	RESTR					
RX -	SOURCE	ROTATE	ROMBNT	DPLRPL	DIFPLT	CYAXIS		
RY -	SOURCE	ROTATE	DPLRPL	DIFPLT	DFPTWD	CYAXIS		
RZ -	SOURCE	ROTATE	DPLRPL	DIFPLT	CYAXIS			
R1K -	SOURCE							
R1KS -	SOURCE							
R2 -	SOURCE							
R2K -	SOURCE							
R2KS -	SOURCE							
R3 -	SOURCE							
R5 -	SOURCE							
S -	ZGDRV	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RFPTCL	RFDFIN
	REFCYL	RCLRPL	FRNELS	FKY	FFCT	DPLRCL	DPI	DICOEF
	DFPTWD	DFPTCL						
SA -	RFDFPT							
SABI -	ZGDRV	SEJCON						
SABJ -	ZGDRV	SEJCON						
SALPI -	ZGDRV	SEJCON						
SALPJ -	ZGDRV	SEJCON						
SAM -	RFDFPT							
SAS -	SCTCYL	SCLRPL	RPLSCL	RADCY	GTDDRV	FCT		
SASP -	SCLRPL	RADCY	GTDDRV					
SB -	RFDFPT							
SBO -	RPLDPL	RCLDPL	ENDIF	DZCOEF	DW	DPLRPL	DPLRCL	DPI
	DIFPLT	DICOEF						
SCALE -	BLKDAT							
SCALES -	BLKDAT							
SCDK2 -	SOURCP							
SCLRPL -	GTDDRV							
SCNPR -	RWCOMS							
SCP -	SCTCYL	SCLRPL	RPLSCL					
SCTCYL -	GTDDRV							
SCW -	ENDIF							
SDEL -	FFCT							
SE -	DFPTWD							
SEGNAM -	EXCDRV							
SEGTBL -	ZIJDRV	ZGDRV	WRTCHK	TSKXQT	STRUP	SEJCON	RWFILS	RESTR
	PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
SEJCON -	ZGDRV							
SERCS -	DFPTWD							
SET -	TSKXQT							
SFR -	FFCT							
SGI -	ROMBNT							
SGMNT -	RWCOMS							
SGN -	SCTCYL	SCLRPL	RPLSCL	DPI	DICOEF			
SGR -	ROMBNT							
SHAD -	RFDFPT	DFRFPT						

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SHADC	-	RFDFPT	DFRFPT						
SHELL	-	STATFN							
SI	-	NTGRAN							
SIGMA	-	PUTKVV	GETKVV	BLKDAT					
SIGN	-	SOURCP	SCTCYL	SCLRPL	RPLSCL	PLAINT	GEOMPC	DPI	DICOEF
		DFRFPT							
SILK	-	INTPLT							
SIN	-	XYZFLD	TPNFLD	TANG	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLRCL	RPLDPL	ROTATE	RFPTCL	RFDFPT	RFDFIN	REFPLA
		REFCYL	REFBP	RCLRPL	RCLDPL	RACV	NTGRAN	NANDB	INTPLT
		GTDDRV	GETFLD	GEOMPC	FUNI	FRNELS	FKARG	FCT	ESPARM
		ENDIF	DZCOEF	DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFPT
		DFPTCL	CYLINT	CAPINT					
		SCTCYL	SCLRPL	RPLSCL					
SINA	-	ESPARM							
SINETA	-	INTPLT							
SINK	-	INTPLT							
SINL	-	ESPARM							
SINP	-	SOURCE	ESPARM						
SINT	-	RFPTCL							
SIPX	-	RFPTCL							
SIPY	-	RFPTCL							
SIX	-	RFPTCL	RFDFIN						
SIY	-	RFPTCL	RFDFIN						
SJ1	-	SEJCON							
SJ2	-	SEJCON							
SKT	-	SOURCE							
SKWIG	-	SCTCYL	SCLRPL	RPLSCL	FKARG				
SM	-	RFDFPT	RFDFIN	DFRFPT					
SMA	-	RFDFIN							
SMAG	-	SCTCYL	REFCYL	RCLDPL	DPLRCL				
SMAGI	-	RPLSCL	RPLRCL						
SMAGJ	-	SCLRPL	RCLRPL						
SMAGNF	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	INCFLD	GTDDRV	ENDIF	DPLRPL	DPLRCL
		DIFPLT							
SMO	-	RFDFIN							
SMSTR	-	RWCOMS							
SN	-	SOURCP	FCT						
SNA	-	FCT							
SNAS	-	SCTCYL	SCLRPL	RPLSCL					
SNC	-	SEJCON	REFCAP	GTDDRV	GEOMC	ENDIF	DFPTCL	CAPINT	
SND	-	RFDFIN							
SNDK2	-	SOURCP							
SNF	-	SMAGNF	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA
		REFCYL	REFCAP	RCLDPL	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT
SNFF	-	SCLRPL	RCLRPL						
SNI	-	RFDFIN							
SNM	-	DFRFPT	DFRFPT						
SNP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
SNPX	-	RFPTCL	RFDFPT	DFRFPT					

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SNPY	-	RFPTCL	RFDFT	DFRFT					
SNV	-	RPLRCL	RFPTCL	RFDFT	RFDIN	REFCYL	RCLRPL	DFRFT	
SNX	-	RPLRCL	RFPTCL	RFDFT	RFDIN	REFCYL	RCLRPL	GEOMPC	DFRFT
SNY	-	RPLRCL	RFPTCL	RFDFT	RFDIN	REFCYL	RCLRPL	GEOMPC	DFRFT
SN2	-	FCT							
SO	-	DPTNFW							
SORT	-	ZIJDRV	ZGDRV	SET	SEJCON	PUTSEG	PRTKJ	GTDRV	GETSEG
		GETGEO	FLDDR	EXCDRV	ESPARM	BLKDAT			
SOURCE	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFCAP	RCLRPL	RCLDPL	INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT
SOURCEP	-	RPLDPL	DPLRPL	DIFPLT					
SP	-	XYZFLD	RPLDPL	ROTATE	RCLDPL	DPLRPL	DPLRCL	DIFPLT	DFPTWD
SPCS	-	RFDFT	DFRFT						
SPDC	-	GEOMPC	DFRFT						
SPE	-	ENDIF	DFPTWD						
SPERCS	-	DFPTWD							
SPH	-	SOURCE	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT		
SPHI	-	RPLRPL	RPLRCL	REFPLA					
SPHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
SPHO	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
SPHP	-	SOURCEP	SOURCE						
SPHS	-	SOURCE							
SPL	-	DFRFT							
SPM	-	ENDIF							
SPO	-	RFDFT							
SPOP	-	RFDFT							
SPP	-	RPLDPL	RFPTCL	DPLRPL	DIFPLT				
SPS	-	SCTCYL	RPLSCL	RPLRCL	RFPTCL	REFCYL	REFBP	GTDRV	DPLRCL
		CYLINT							
SPS1	-	RPLRCL	REFCYL						
SPS2	-	RPLRCL	REFCYL						
SPX	-	ENDIF							
SPY	-	ENDIF							
SPZ	-	ENDIF							
SP1	-	ZGDRV	SOURCEP	SOURCE	GTDRV				
SP2	-	ZGDRV	SOURCEP	SOURCE	GTDRV				
SQR	-	DICOEF							
SQRH	-	RPLRCL	REFCYL	RCLRPL					
SQRT	-	ZGDRV	TANG	SOURCEP	SOURCE	SMAGNF	SCTCYL	SCLRPL	RPLSCL
		RPLRPL	RPLRCL	RPLDPL	ROMBHT	RFPTCL	RFDFT	RFDIN	REFPLA
		REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	RADC	QFUN	PLAIN
		PFUN	NTGRAN	NFD	NANDB	INCFLD	GTDRV	GEOMC	GEOM
		FUN1	FRNELS	FKY	FFCT	FCT	ESPARM	ENDIF	DPTNFW
		DPLRPL	DPLRCL	DPI	DIFPLT	DICOEF	DFRFT	DFPTWD	DFPTCL
		CYLINT	CAPINT						
SQTP	-	SCTCYL	SCLRPL	RPLSCL					
SR	-	POLYRT							
SRAY	-	WRCHK							
SRK	-	NTGRAN							
SR1	-	SOURCE							

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SR1R	-	SOURCE							
SR1RR	-	SOURCE							
SR2	-	SOURCE							
SR2R	-	SOURCE							
SR2RR	-	SOURCE							
SS	-	SCTCYL	SCLRPL	RPLSCL	ROTATE	ROMBNT	DPINFW		
SSBO	-	ENDIF							
SSM	-	DFRFPT							
SSPL	-	DFRFPT							
SSP1	-	GTDDRV							
SSP2	-	GTDDRV							
SSS	-	SCTCYL	SCLRPL	RPLSCL					
SST	-	SOURCE							
SST2	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF			
SSW	-	ENDIF							
SSX	-	DFPTCL							
SSY	-	DFPTCL							
SSZ	-	DFPTCL							
SSI	-	SCLRPL							
ST	-	XYZFLD	ROTATE						
STA	-	SCTCYL	SCLRPL	RPLSCL					
START	-	POLYRT							
STATFN	-	MAIN	ERROR						
STATIN	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCsum
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
STATOT	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKVV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNCsum
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKVV	GETKWD
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
STCS	-	RDFRPT	DFRFPT						
STDC	-	DFRFPT							
STE	-	ENDIF							
STH	-	SOURCE							
STH1	-	RPLRPL	RPLRCL	REFPLA					
STHJ	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
STHJ1	-	SCLRPL							
STHJ2	-	SCLRPL							
STHP	-	SOURCE	SOURCE						
STHR	-	RPLDPL	DPLRPL	DIFPLT					
STHS	-	SOURCE	SCTCYL	RPLSCL	RPLRCL	REFCYL	GTDDRV		

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STHS1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
STHS2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
STO	-	RDFDPT							
STOP	-	ZIJDRV	ZGTDV	JRTFIL	WLKBC	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRTUP	SEJCON	RWFILS	RDFDPT	RESTR	RDEFIL	PUTSYM	PUTKWV
		OPNFIL	MOVFIL	MAIN	GETSYM	GETKWV	GETFLD	GETARG	FNDREC
		FLDDRV	EXCDRV	ESPARM	DMPDRV				
STP	-	RFPCTL	RDFDPT	DFRPT					
STRTUP	-	MAIN							
STS	-	REFBP							
SUBOPR	-	DMPDRV							
SUM	-	GEOM							
SUMT	-	GEOM							
SV	-	TANG	ENDIF						
SVCV	-	GEOMPC							
SVE	-	TANG	CYLINT	CAPINT					
SW	-	RPLRCL	REFCYL	RCLRPL	RCLDPL				
SX	-	TANG	DFPTWD						
SXN	-	RPLRCL	REFCYL	RCLRPL					
SXQ	-	DFPTCL							
SXY	-	SCTCYL	SCLRPL	RPLSCL					
SY	-	TANG							
SYMDEF	-	ZIJDRV	TSKXQT	PUTSYM	FLDDRV	EXCDRV	DMPDRV		
SYHFLG	-	ZIJDRV							
SYMUPD	-	ZIJDRV	TSKXQT	PUTSEG	FLDDRV	EXCDRV			
SYN	-	RPLRCL	REFCYL	RCLRPL					
SYQ	-	DFPTCL							
SYSCHK	-	ZIJDRV	TSKXQT	FLDDRV					
SYSFL	-	RWCOMS							
SYSLST	-	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRTUP	STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	OPNFIL
		MAIN	GETSYM	GETKWV	FLDDRV	ERROR	BLKDAT	ASSIGN	
SYSRTN	-	MAIN							
SZN	-	RPLRCL	REFCYL	RCLRPL					
SZO	-	DFPTCL							
S1	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL				
S2	-	SCTCYL	SCLRPL	RPLSCL	RCLRPL				
T	-	XVZFLD	WRTCHK	TICHEK	DFPTCL				
TAGNAM	-	EXCDRV							
TAN	-	SCTCYL	SCLRPL	RPLSCL	DZCOEF	DFPTWD			
TANG	-	SCTCYL	SCLRPL	RPLSCL	GEOMPC	GEOMC	CYLINT		
TAN1	-	DZCOEF							
TAN2	-	DZCOEF							
TCI	-	SOURCE							
TCR	-	SOURCE							
TDCR	-	GEOMPC	DFRPT						
TEMP	-	ZIJDRV	WRTCHK	SYMDEF	RWFILS	RWCOMS	RESTR	PUTSYM	MOVFIL
		MAIN	FLDDRV	EXCDRV	DPLRCL	DMPDRV	BLKDAT		
TERM	-	SOURCE	RPLDPL	DPLRPL	DIFPLT				
TEST	-	POLYRT							

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TE11	-	ROMBNT							
TE1R	-	ROMBNT							
TE21	-	ROMBNT							
TE2R	-	ROMBNT							
TH	-	TPNFLD							
THCN	-	RFDFT							
THCR	-	RFDFT	DFRFT						
THEDR	-	ENDIF							
THER	-	ENDIF							
THETA	-	ROTATE	GETFLD	EXCDRV	ESPARM				
THEX	-	ENDIF							
THEY	-	ENDIF							
THEZ	-	ENDIF							
THICR	-	RCLDPL							
THIR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCYL
		REFBP	RCLRPL	ENDIF	DPLRPL	DPLRCL	DIFPLT		
THJR	-	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RCLRPL	DPLRPL	
THJR1	-	SCLRPL							
THJR2	-	SCLRPL							
THOR	-	RFDFT	DFRFT						
THPR	-	RPLDPL	DPLRPL	DIFPLT					
THR	-	RPLDPL	DPLRPL	DIFPLT					
THSR	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFDFT	REFPLA
		REFCYL	REFCAP	REFBP	RCLRPL	RCLDPL	NFD	INCFLD	GTDDRV
		ENDIF	DPLRPL	DPLRCL	DIFPLT	DFRFT	DFPTWD		
THSRM	-	DFPTCL							
THSR1	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
THSR2	-	SCTCYL	RPLSCL	RPLRCL	REFCYL				
THTN	-	GTDDRV							
THTNR	-	GTDDRV							
THTP	-	GTDDRV							
THTPR	-	GTDDRV							
THTSV	-	ROTATE							
TH11	-	RCLDPL	DPLRCL						
TH12	-	RCLDPL	DPLRCL						
TH21	-	RCLDPL	DPLRCL						
TH22	-	RCLDPL	DPLRCL						
TICKEK	-	ZGTDV	WRTCHK	TSKXQT	SYSCHK				
TINCHK	-	SYSCHK							
TIME	-	SYSRTH	MAIN						
TIMIN	-	STATIN							
TIMOUT	-	STATOT							
TINT60	-	ZGTDV	SYSCHK	PUTKWV	GETKWV	BLKDAT			
TLAST	-	TICKEK	SYSCHK						
TLEFT	-	ZGTDV							
TPPBUF	-	PUTSYM	GETSYM						
TNOW	-	ZGTDV	TSKXQT	SYSCHK					
TOP	-	GEOM	ENDIF	DPI	DICOEF	CYLINT	BLDATA		
TOTAL	-	STATFN							
TPBO	-	SOURCEP							

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TPCEPI	-	BLKDAT							
TPHO	-	SOURCP							
TPI	-	SOURCP	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL
		RFPTCL	RFDFTP	REFPLA	REFCYL	REFCAP	RCLRPL	RCLDPL	INCFLD
		GEOM	FKY	FFCT	ENDIF	D7COEF	DPLRPL	DPLRCL	DPI
		DIFPLT	DICOEF	DFRFTP	BLDATA				
TPNFLD	-	SCLRPL	RPLRCL	RPLDPL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRPL
		DPLRCL	DIFPLT						
TPP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
TR	-	GTDDRV							
TRACE	-	MAIN							
TRACST	-	ZZXDUM	ZIJDRV	ZGDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYMUPD	SYNDEF	STRUP	STATOT	STATIN
		STATFN	SOURCP	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPTCL	RFDFTP	RESTR	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		OPNFIL	NTGRAN	MOVFI	MAIN	JNC SUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DFRFTP	CYAXIS	CONVRT	CLSFIL	BTAN2
		BLKDAT	ASSIGN						
TRAN	-	SCTCYL	REFCYL						
TRANI	-	RPLSCL	RPLRCL						
TRANJ	-	SCLRPL	RCLRPL						
TRCEBK	-	WLKBCK	ERROR						
TRO	-	GTDDRV							
TS	-	TICHEK	DPTNFW	DPI	DICOEF				
TSIN	-	DPI	DICOEF						
TSKXQT	-	MAIN							
TSTART	-	ZGDRV							
TSUMS	-	BLKDAT							
TTINS	-	BLKDAT							
TTM	-	SCTCYL	SCLRPL	RPLSCL					
TWOPI	-	ZIJDRV	PUTKWV	EXCDRV	BLKDAT				
TX	-	GETFLD							
TXF	-	ZGDRV							
TXS	-	ZGDRV	GTDDRV						
TX1	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TX2	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TY	-	GETFLD							
TYF	-	ZGDRV							
TY3	-	ZGDRV	GTDDRV						
TY1	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TY2	-	SCTCYL	SCLRPL	REFCYL	CYLINT				
TZ	-	GETFLD							
TZF	-	ZGDRV							
TZS	-	ZGDRV	GTDDRV						
T001	-	ROMBNT							
T00R	-	ROMBNT							

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T01I	-	ROMBNT							
T01R	-	ROMBNT							
T02I	-	ROMBNT							
T02R	-	ROMBNT							
T1	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	ENDIF			
T1I	-	SOURCE							
T1R	-	SOURCE							
T1S	-	SOURCE							
T1X	-	TANG							
T1XI	-	ZGDRV	SEJCON						
T1XJ	-	ZGDRV	SEJCON						
T1Y	-	TANG							
T1YI	-	ZGDRV	SEJCON						
T1YJ	-	ZGDRV	SEJCON						
T1ZI	-	ZGDRV	SEJCON						
T1ZJ	-	ZGDRV	SEJCON						
T10I	-	ROMBNT							
T10R	-	ROMBNT							
T11I	-	ROMBNT							
T11R	-	ROMBNT							
T2	-	SOURCE	SCTCYL	SCLRPL	RPLSCL	ENDIF			
T2I	-	SOURCE							
T2R	-	SOURCE							
T2S	-	SOURCE							
T2X	-	TANG							
T2XI	-	ZGDRV	SEJCON						
T2XJ	-	ZGDRV	SEJCON						
T2Y	-	TANG							
T2YI	-	ZGDRV	SEJCON						
T2YJ	-	ZGDRV	SEJCON						
T2ZI	-	ZGDRV	SEJCON						
T2ZJ	-	ZGDRV	SEJCON						
T20I	-	ROMBNT							
T20R	-	ROMBNT							
T3	-	SOURCE	ENDIF						
T3S	-	SOURCE							
T4	-	SOURCE							
T4S	-	SOURCE							
U	-	FLDDR							
U8	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF
		DPLRCL							
UCD	-	RFDFT	GEOMPC						
UDC	-	GEOMPC	DFRFT						
UIN1	-	RCLDPL							
UIN2	-	RCLDPL							
UIPPX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPPY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPPZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPRX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UIPRY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			

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UIPRZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UN	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	NANDB
		ENDIF	DPLRCL						
UNEM	-	ENDIF							
UNEX	-	ENDIF							
UNEY	-	ENDIF							
UNEZ	-	ENDIF							
UNPI	-	DPI	DICOEF						
UPDBLK	-	ZIJDRV	ZGDRV	JRTCHK	TSKXQT	STRUP	SEJCON	RWFILS	RESTR
		PUTSEG	GTDDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	BLKDAT	
UPPI	-	DPI	DICOEF						
UR	-	RFDFT	RFDIN	RCLRPL	GEOMPC	DFRFT			
URO	-	RFDFT	DFRFT						
URPPX	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
URPPY	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
URPPZ	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	DPLRCL			
UT	-	NANDB							
UXR1X	-	RCLDPL							
UXR1Y	-	RCLDPL							
UXR1Z	-	RCLDPL							
UXR2X	-	RCLDPL							
UXR2Y	-	RCLDPL							
UXR2Z	-	RCLDPL							
U1	-	GETFLD	FLDDRV						
U2	-	GETFLD							
V	-	RPLDPL	RFDFT	RCLDPL	IMDIR	GEOMPC	GEOM	ENDIF	DPTNFW
		DPLRPL	DPLRCL	DIFPLT	DFRFT	DFPTWD	DFPTCL		
VAL	-	TSKXQT	STRUP	RWFILS	RESTR	PUTKVV	POSTIP	MAIN	GETKVV
		GETKWD	DMPDRV	BLKDAT					
VALUKV	-	PUTKVV	GETKVV						
VAX	-	SOURCP	SOURCE	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	REFCAP
		GEOMC	GEOM						
VAXP	-	RPLRPL							
VC	-	RPLDPL	IMCDIR	GEOMPC	DFPTWD				
VCD	-	RFDFT	GEOMPC						
VCM	-	RPLDPL	RFDFT	DPLRPL	DIFPLT	DFPTWD			
VCR	-	GEOMPC							
VCV	-	GEOMPC							
VD	-	SCTCYL	SCLRPL	RPLSCL					
VDC	-	GEOMPC	DFRFT						
VDCA	-	GEOMPC							
VDCB	-	GEOMPC							
VDP	-	SCTCYL	SCLRPL	RPLSCL					
VE	-	TANG	CYLINT	CAPINT					
VECT	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
VFR	-	FKARG							
VI	-	SOURCP	SCTCYL	SCLRPL	RPLSCL	RPLDPL	RFDFT	RFDIN	REFBP
		RCLDPL	GEOMPC	GEOM	DPLRPL	DPLRCL	DIFPLT	DFRFT	DFPTWD
VIC	-	RCLDPL	DPLRCL						
VIM	-	RFDFT	RFDIN	GEOM	DFRFT				

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VIMAG	-	IMDIR	IMCDIR							
VIMAX	-	SCTCYL	SCLRPL	RPLSCL						
VIMIN	-	SCTCYL	SCLRPL	RPLSCL						
VIN	-	REFBP								
VIP	-	RPLDPL	DPLRPL	DIFPLT						
VIR	-	FKARG								
VIU	-	RFDFTP	DFRFTP							
VIV	-	RFDFTP	DFRFTP							
VJ	-	SCTCYL	SCLRPL	RPLSCL	RPLDPL					
VJB	-	SCTCYL	SCLRPL	RPLSCL						
VL	-	SCTCYL	SCLRPL	RPLSCL						
VN	-	RFDFIN	GEOM	CYLINT						
VMAG	-	RPLDPL	GEOMPC	GEOM	DPLRPL	DIFPLT				
VNG	-	RPLDPL	DPLRPL	DIFPLT						
VN	-	SCLRPL	RPLDPL	REFCAP	REFBP	RCLRPL	RCLDPL	PLAIN	IMDIR	
		IMAGE	GEOM	DPLRPL	DPLRCL	DIFPLT	DFPTWD			
VNC	-	IMCDIR	GEOMPC	GEOMC						
VNM	-	GEOM								
VNX	-	GEOMPC								
VNY	-	GEOMPC								
VP	-	RPLDPL	RCLDPL	IMDIR	GEOM	DPLRPL	DPLRCL	DIFPLT	DFPTWD	
VPH1	-	EXCDRV	ESPARM							
VPL	-	CYLINT								
VQ	-	DFPTCL								
VR	-	RPLRCL	RFPTCL	RFDFTP	RFDFIN	REFCYL	RCLRPL	RCLDPL	RADCY	
		NANDB	GEOMPC	FUNJ	ENDIF	DPLRCL	DFRFTP	DFPTCL		
VRO	-	RFPTCL	RFDFTP	DFRFTP						
VSD	-	RFDFTP	DFRFTP							
VSDM	-	DFRFTP								
VSOURC	-	IMDIR	IMCDIR							
VT	-	TANG	SCLRPL	RPLDPL	RCLRPL	DPLRPL	DFPTCL	CYLINT		
VTCH	-	GEOMPC	GEOM							
VTCP	-	GEOMPC	GEOM							
VTD	-	CYLINT								
VTHETA	-	EXCDRV	ESPARM							
VTI	-	RPLSCL	RPLRCL	RFPTCL	GEOMPC					
VTS	-	SCTCYL	SCLRPL	RFPTCL	REFCYL	GEOMC				
VU	-	SCTCYL	SCLRPL	RPLSCL						
VX	-	IMDIR	IMCDIR							
VXI	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	REFPLA	GEOM			
VXIC	-	REFCAP	GEOMC							
VXS	-	SCTCYL	SCLRPL	REFCYL	RCLRPL	RCLDPL	INCFLD	GTDDRV	GEOMC	
		GEOM	ENDIF	DPLRPL	DPLRCL	DIFPLT				
VXSS	-	GTDDRV								
VY	-	IMDIR	IMCDIR							
VZ	-	IMDIR	IMCDIR							
V1	-	TANG	GETFLD	FLDDRV						
V2	-	TANG	GETFLD							
WAVLGH	-	ZIJDRV	ZGDRV	SOURCP	SOURCE	PUTKWV	EXCDRV			
WAVNUM	-	ZIJDRV	PUTKWV	INTPLT	EXCDRV					

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XDP	-	RPLDPL	RCLDPL	DPLRPL	DPLRCL	DIFPLT			
XDPP	-	DPLRPL							
XD1	-	RPLDPL	DPLRPL	DIFPLT					
XE	-	GEOMPC							
XEX	-	ENDIF							
XEY	-	ENDIF							
XEZ	-	ENDIF							
XE1	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL			
XE2	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL			
XF	-	SOURCE	ENDIF						
XFC	-	RFDFT							
XFENDC	-	DFPTCL							
XFLD	-	GTDDRV							
XFM	-	DFPTCL							
XFP	-	RFDFT							
XFRCS	-	ENDIF							
XFY	-	GTDDRV							
XFZ	-	GTDDRV							
XI	-	ZGTDRV	SEJCON	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL	RPLDPL
		RFPTCL	REFPLA	QFUN	POLYRT	PFUN	GEOMPC	GEOM	
XIC	-	REFCAP	GEOMC						
XII	-	RPLSCL	IMAGE	GEOMPC	GEOM				
XIJ	-	RPLRPL							
XIN	-	GEOMPC	GEOMC	GEOM					
XIPT	-	RPLSCL							
XIS	-	RPLSCL	RPLRPL	RPLRCL	RPLDPL	RFPTCL	REFPLA	REFCAP	PLAINT
		IMAGE	CAPINT						
XJ	-	ZGTDRV	SEJCON						
XL	-	DQG32							
XM	-	GEOM							
XMAG	-	RCLDPL							
XNS	-	ZGTDRV	GTDDRV						
XO	-	ROTRAN	DPTNFW						
XOB	-	GEOMPC	GEOM						
XOCE	-	DPTNFW							
XOSE	-	DPTNFW							
XP	-	SOURCE	RFDFT	GTDDRV	DFRFT				
XPH	-	SOURCP							
XPHW	-	GEOMPC							
XPM	-	CYLINT							
XPO	-	DPTNFW							
XPS	-	DPTNFW							
XPT	-	SCTCYL	SCLRPL	RPLSCL					
XQ	-	RPLRPL							
XQS	-	REFPLA							
XR	-	SCTCYL	RFDFT	RDFIN	REFCYL	RCLDPL	POLYRT	DPLRCL	DFRFT
XRF	-	SCTCYL	SCLRPL	RPLSCL					
XRFIN	-	SCTCYL	SCLRPL	RPLSCL					
XRI	-	RPLSCL	RPLRCL						

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W1	-	GTDDRV							
WL	-	GTDDRV							
WLKBCX	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK
		SYNUPD	SYNDEF	STARTUP	SOURCE	SOURCE	SET	SEJCON	SCTCYL
		SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE
		ROMBNT	RESTRY	REFPLA	REFCYL	REFCAP	RDEFIL	RCLRPL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	OPNFIL	MOVFIL	JNC SUM
		INTPLT	INCFLD	IBITCK	GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD
		GETGEO	GETFLD	GETARG	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR
		ENDIF	DPLRPL	DPLRCL	DMPDRV	DIFPLT	CYAXIS		
WORDS	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	WLKBCX	TSKXQT	TRCEBK
		TANG	SYSRTN	SYSCHK	SYNUPD	SYNDEF	STARTUP	STATOT	STATIN
		STATFN	SOURCE	SOURCE	SHELL	SET	SEJCON	SCTCYL	SCLRPL
		RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLRCL	RPLDPL	ROTATE	ROMBNT
		RFPTCL	RFDFPT	RESTRY	REFPLA	REFCYL	REFCAP	REFBP	RDEFIL
		RCLRPL	RCLDPL	PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT
		OPNFIL	TGRAN	MOVFIL	MAIN	JNC SUM	INTPLT	INCFLD	IBITCK
		GTDDRV	GETSYM	GETSEG	GETKWV	GETKWD	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ERROR	ENDIF	DPLRPL
		DPLRCL	DMPDRV	DIFPLT	DFRPT	CYAXIS	CONVRT	CLS FIL	BTAN2
		BLKDAT	ASSIGN						
WR	-	RPLRCL	REFCYL	RCLRPL	RCLDPL	ENDIF	DPLRCL	TSKXQT	TRCEBK
WRITE	-	ZZXDUM	ZIJDRV	ZGTDV	WRTFIL	WRTCHK	WLKBCX	TSKXQT	TRCEBK
		TANG	SYSCHK	SYNUPD	SYNDEF	STARTUP	STATOT	STATIN	STATFN
		SEJCON	SCTCYL	SCLRPL	RWFILS	RWCOMS	RPLSCL	RPLRPL	RPLDPL
		RFPTCL	RFDFPT	RESTRY	REFPLA	REFCAP	REFBP	RDEFIL	RCLDPL
		PUTSYM	PUTSEG	PUTKWV	PRTKJ	POSTIP	POLYRT	OPNFIL	MOVFIL
		MAIN	INCFLD	GETSYM	GETSEG	GETKWV	GETGEO	GETFLD	GETARG
		GEOM	FNDREC	FLDDRV	EXCDRV	ESPARM	ENDIF	DPLRPL	DPLRCL
		DMPDRV	DIFPLT	DFRPT	CYAXIS	ASSIGN			
WRTCHK	-	TSKXQT	SYSCHK	STATFN	ERROR				
WRTFIL	-	WRTCHK	RWFILS	RWCOMS	PUTSYM				
W1	-	GETFLD	FLDDRV						
W2	-	GETFLD							
X	-	SMAGNF	RPLDPL	ROTATE	RFDFPT	RCLDPL	QFUN	PLAINT	PFUN
		NFD	IMAGE	GTDDRV	GETFLD	GEOMPC	GEOM	FRNELS	FCT
		ESPARM	DPTNFW	DPLRPL	DIFPLT	DFRPT	DFPTWO	BTAN2	BLOG10
		BABS							
XC	-	RPLDPL	RFDFPT	RFDFIN	GETFLD	GEOMPC	GEOM	ENDIF	DIFPLT
XCL	-	ROTRAN	GTDDRV	CYAXIS					
XCOM	-	GTDDRV							
XCSRC	-	GTDDRV							
XD	-	SCTCYL	SCLRPL	RPLSCL	RPLDPL	RFDFPT	RCLDPL	DPTNFW	DPLRPL
		DPLRCL	DIFPLT	DFRPT	DFPTWO				
XDC	-	GEOMPC	GEOM						
XDD	-	DPLRCL							
XDENDC	-	DFPTCL							
XDI	-	DPLRPL							
XDIS	-	DFRPT							
XDMAG	-	RCLDPL							

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XRJ	-	RCLRPL							
XRJ	-	RFDFT	DFRFT						
XRPL	-	DFRFT							
XRR	-	SCLRPL	RCLRPL	RCLDPL					
XRS	-	SCLRPL	RCLRPL						
XRT	-	ROTRAN							
XRU	-	RFDFT	DFRFT						
XRV	-	RFDFT	DFRFT						
XR1X	-	RCLDPL							
XR1Y	-	RCLDPL							
XR1Z	-	RCLDPL							
XR2X	-	RCLDPL							
XR2Y	-	RCLDPL							
XR2Z	-	RCLDPL							
XS	-	ZGDRV	TANG	SOURCE	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLRCL
		RPLDPL	RFDFT	RFDFT	RFDFT	REFPLA	REFCYL	REFCAP	RCLRPL
		RCLDPL	INCFLD	GTDDRV	GEOMPC	GEOMC	GEOM	FRNELS	FKY
		ENDIF	DPTNFW	DPLRPL	DPLRCL	DIFPLT	DFRFT	DFPTWD	DFPTCL
		CYLINT							
XSCE	-	DPTNFW							
XSI	-	GEOM							
XSI1	-	GEOM							
XSM	-	DFPTCL							
XSS	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	RPLDPL	REFCYL	REFCAP	RCLRPL
		RCLDPL	GTDDRV	ENDIF	DPLRPL	DPLRCL	DIFPLT		
XSX	-	GEOM							
XSI	-	INCFLD	DPLRPL	DIFPLT					
XT	-	TANG	ROTRAN	PLAINT	CAPINT				
XTH	-	SOURCP							
XT1	-	RPLRCL	REFCYL						
XT2	-	RPLRCL	REFCYL						
XU	-	DQG32							
XWORDS	-	WRTFIL	RDEFIL						
XX	-	SCTCYL	SCLRPL	RPLSCL	ROTRAN	GTDDRV	GEOM		
XXS	-	SCTCYL	SCLRPL	RPLSCL					
XXX	-	SCTCYL	SCLRPL	RPLSCL	GTDDRV				
XX1	-	PUTSEG							
XY	-	TANG							
XYZFLD	-	SCTCYL	SCLRPL	RPLSCL	RPLRPL	RPLDPL	REFPLA	REFCAP	RCLDPL
		INCFLD	ENDIF	DPLRPL	DPLRCL	DIFPLT			
X1	-	RPLDPL	ROTATE	PUTSEG					
X1MAG	-	RCLDPL							
X2	-	PUTSEG							
X3	-	PUTSEG							
Y	-	ROTATE	POLYRT	GETFLD	FRNELS	ESPARM	DQG32	GTAN2	BABS
YC	-	GETFLD							
YCL	-	ROTRAN	GTDDRV	CYAXIS					
YCSRC	-	GTDDRV							
YD	-	SCTCYL	SCLRPL	RPLSCL					
YE	-	GEOMPC							

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YEX	-	ENDIF								
YEZ	-	ENDIF								
YFLD	-	GTDDRV								
YFM	-	DFPTCL								
YI	-	ZGDRV	SEJCON	SCTCYL	SCLRPL					
YII	-	RPLSCL								
YIPT	-	RPLSCL								
YJ	-	ZGDRV	SEJCON							
YNS	-	ZGDRV	GTDDRV							
YP	-	SOURCE	GTDDRV							
YPH	-	SOURCP								
YPHW	-	GEOMPC								
YPM	-	CYLINT								
YS	-	ZGDRV								
YSM	-	DFPTCL								
YSSSTAT	-	TSKXQT								
YT	-	TANG								
YTH	-	SOURCP								
YY	-	GEOM								
Y1	-	ROTATE	PUTSEG							
Y2	-	PUTSEG								
Y3	-	PUTSEG								
Z	-	ROTATE	ROMBNT	GETFLD	ESPARM	BABS				
ZC	-	SCTCYL	SCLRPL	RPLSCL	RPLRCL	REFCYL	RCLRPL	RCLDPL	GTDDRV	
		GETFLD	GEOMPC	GEOMC	ENDIF	DPLRCL	DFPTCL	CYLINT	CAPINT	
ZCL	-	ROTRAN	GTDDRV	CYAXIS						
ZCN	-	GTDDRV								
ZCP	-	GTDDRV								
ZCSRC	-	GTDDRV								
ZD	-	SCTCYL	SCLRPL	RPLSCL	DFPTWD					
ZDK	-	NTGRAN								
ZD1	-	SOURCE								
ZD2	-	SOURCE								
ZE	-	ROMBNT	DFPTWD							
ZEND	-	ROMBNT								
ZERO	-	ZGDRV	SYSCHK	SOURCE	PUTKWV	GETGEO	FLDDRV	EXCDRV	ESPARM	
		BTAN2	BLKDAT							
ZFLD	-	GTDDRV								
ZFM	-	DFPTCL								
ZGDRV	-	ZIJDRV	FLDDRV	EXCDRV						
ZI	-	ZGDRV	SEJCON	SCTCYL	SCLRPL					
ZII	-	RPLSCL								
ZIINC	-	SCTCYL	SCLRPL	RPLSCL						
ZIJDRV	-	TSKXQT								
ZIPT	-	RPLSCL								
ZJ	-	ZGDRV	SEJCON							
ZK	-	NTGRAN								
ZLOC	-	GTDDRV								
ZNS	-	ZGDRV	GTDDRV							
ZP	-	SOURCE	RPLDPL	ROMBNT	GTDDRV	DPLRPL	DIFPLT			

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ZPE	-	DFPTWD							
ZPH	-	SOURCP							
ZPK	-	SOURCE	NTGRAN						
ZPM	-	CYLINT							
ZPS	-	CYLINT							
ZRATI	-	ZIJDRV	ZGTDRV	STRUP	SOURCP	SOURCE	SEJCON	PUTKWV	JNCSUM
		INTPLT	GETKWV	FLDDRV	EXCDRV	BLKDAT			
ZS	-	ZGTDRV							
ZSM	-	DFPTCL							
ZTH	-	SOURCP							
ZX	-	DFPTWD							
ZZ	-	SOURCE							
ZZXDUM	-	DMPDRV							
ZZ3	-	PUTSEG							
Z1	-	ROTATE	PUTSEG						
Z2	-	PUTSEG							
Z3	-	PUTSEG							

2. INPUT Module

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SYMBOL - *****		ROUTINES IN WHICH THE SYMBOL IS USED *****							
A	-	SCALE3	SCALE2						
AA	-	CYLNDR							
ABS	-	WYDRV	SUBPAT	SCALE3	SCALE2	PUTKWV	PRGTGTD	PLTSEG	PLTDRV
		PAGPLT	JCTION	GEODRV	FLTPLT				
ADDOPR	-	DMPDRV							
ADEBG	-	RWCOMS							
AINI	-	PAGPLT							
AL	-	SCALE3	SCALE2						
ALOG10	-	SCALE3	SCALE2	PAGPLT					
AMAX1	-	PAGPLT							
AMIN1	-	PAGPLT	JCTION						
AMOD	-	PLTDRV							
AMP2J	-	RWCOMS							
AN	-	PLTSEG							
AREA	-	SUBPAT	PATCH						
AREAP	-	GEODRV							
ARGCH	-	RWCOMS							
ASIN	-	GTDCS							
ASSIGN	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRGTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS
		CNVGTD	BUBBLE						
ATAN2	-	PLTSEG	PLTDRV	GTDCS	GEODRV				
ATTACH	-	WYDRV	PATCH	COORDS					
A11	-	ROTATE							
A12	-	ROTATE							
A13	-	ROTATE							
A21	-	ROTATE							
A22	-	ROTATE							
A23	-	ROTATE							
A31	-	ROTATE							
A32	-	ROTATE							
A33	-	ROTATE							
B	-	SCALE3	SCALE2						
BB	-	CYLNDR							
BUBBLE	-	GEODRV							
C	-	PLTDRV	DMPDRV						
CHKPNT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
CHKWRT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN

INPUT Module

I N D E X

***** SUPER INDEX *****

CLITE	-	PUTKVV	BLKDAT						
CLNK	-	PLATE							
CLSFIL	-	WRTCHK	SYMDEF	SUBPAT	STATFN	RWFILS	PUTSYM	OPNFIL	GEODRV
		ERROR	DMPDRV	BUBBLE					
CMAG	-	DMPDRV							
CMPLX1	-	DMPDRV							
CMPLX2	-	DMPDRV							
CNSLIO	-	WRTCHK							
CNVGTD	-	LNKGT0							
COMPLY	-	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	PRESCN	OPNFIL	MAIN
		INPDV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
COMSAV	-	SYSCHK							
CONVRT	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	RESTR	PUTSYM	PUTKVV	PREPAR
		POSTPR	POSTIP	PLTDRV	MAIN	GETSYM	GETKVV	GETARG	GEODRV
		FNDREC	DMPDRV						
		WYDRV	PATCH						
COORDS	-								
COP1	-	DMPDRV							
COP2	-	DMPDRV							
COS	-	ROTATE	PATCH						
COSALP	-	GEODRV							
COSBET	-	GEODRV							
CP	-	ROTATE	PLTSEG	PATCH					
CPFRWD	-	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCE3K	SYSCHK	SYMDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKVV	PRESCN	OPNFIL	MAIN
		INPDV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
CS	-	ROTATE							
CSTM	-	RWCOMS							
CT	-	ROTATE	PATCH						
CVAL	-	WYDRV	GTDCS	GEODRV	COORDS	BLKDAT			
CX	-	WYDRV	GTDCS	GEODRV	COORDS	BLKDAT			
CY	-	GTDCS	COORDS						
CYLNDR	-	WYDRV							
CZ	-	GTDCS	COORDS						
D	-	PRTGTD	PLATE	LNKGT0					
DATIN	-	SYSRTN							
DBGPR	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRNLAT	TRCEBK
		SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
		ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKVV	PRTGTD
		PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGT0
		LITSCH	JCTION	INPDV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
		GETKVV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CONVRT
		CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
DB1	-	PLTSEG							
DBT	-	PLTSEG							
DC4R	-	PAGPLT							
DCINV	-	PAGPLT							

INPUT Module

I N D E X

***** SUPER INDEX *****

DEL	-	SCALE3	SCALE2						
DFDT	-	RWCOMS							
DGTORD	-	WYRDRV	PRGTGD	PLTDRV	PATCH	GEODRV	ENDCAP	BLKDAT	
DIST	-	SCALE3	SCALE2						
DISTL	-	SCALE3							
DIVOPR	-	DMPORV							
DJ	-	SYSRTN							
DLINV	-	PAGPLT							
OLYN	-	PAGPLT							
DMPORV	-	TSKXQT							
DOT	-	FLTPLT							
DT	-	WRTCHK	TSKXQT	TICKEK	SYSCHK				
DX	-	WYRDRV	TRNLAT	PAGPLT	JCTION	GEODRV	COORDS	CNVGTD	
DY	-	WYRDRV	TRNLAT	PAGPLT	JCTION	GEODRV	COORDS	CNVGTD	
DZ	-	WYRDRV	TRNLAT	JCTION	GEODRV	COORDS	CNVGTD		
EFDGEO	-	TSKXQT							
EN	-	PLTSEG							
ENDCAP	-	WYRDRV							
ENH	-	PLTSEG							
ENX	-	PLTSEG							
ENY	-	PLTSEG							
ENZ	-	PLTSEG							
EPSR	-	PUTKVV	GETKVV	BLKDAT					
ERRFLG	-	PLATE	LNKGTD	ENDCAP	CYLNDR				
ERRMSG	-	WYRDRV	FABLO2						
ERROR	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	RESTRT	RDEFIL	PUTSYM
		PUTPNT	PUTKVV	PRESCN	PLTDRV	OPNFIL	NOVFIL	GETSYM	GETKVV
		GETARG	FNDREC	DMPORV	COORDS	CNVGTD			
ET	-	SYSCHK							
ETA	-	BLKDAT							
ETIME	-	SYSCHK							
EXPOR	-	DMPORV							
E1X	-	PLTSEG	FLTPLT						
E1Y	-	PLTSEG	FLTPLT						
E1Z	-	PLTSEG	FLTPLT						
E2X	-	PLTSEG	FLTPLT						
E2Y	-	PLTSEG	FLTPLT						
E2Z	-	PLTSEG	FLTPLT						
FABLO2	-	SYMSCH	SYMLIT	PLIST	PARSE	LITSCH	FNDARG		
FIRST	-	SCAN	IBITCK						
FJ	-	PUTKVV	GETKVV	BLKDAT					
FJS	-	WYRDRV							
FLOCH	-	RWCOMS							
FLEN	-	LNKGTD	CYLNDR	CNVGTD					
FLOAT	-	WYRDRV	SYSRTN	SYSCHK	SCAN	SCALE3	SCALE2	PLTDRV	PATCH
		PAGPLT	LITSCH	GETKVV	GETARG	ENDCAP	DMPORV	CYLNDR	
FLTARG	-	ZZXDUM	WYRDRV	TSKXQT	SYMDEF	RESTRT	PLTDRV	OPNFIL	MAIN
		GETGEO	GETARG	GEODRV	EFDGEO	DMPORV	BLKDAT		
FLTINC	-	SYSCHK							
FLTLLT	-	ZZXDUM	WYRDRV	WRTCHK	TSKXQT	SYMUPD	SYMSCH	SYMLIT	SYMDEF

INPUT Module

I N D E X

***** SUPER INDEX *****

		SUBPAT	SCAN	RWFILS	RESTR	PUTSYM	PUTSEG	PUTKVV	PRESCH
		PREPAR	POSTPR	POSTIP	PLTDRV	PLIST	PATCH	PARSE	OPNFIL
		MAIN	LITSCH	INPDRV	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
		GEODRV	FNDREC	FNDARG	EFDGEO	DMPDRV	CONVRT	BLKDAT	
FLTPLT	-	PLATE							
FLTSYM	-	SYNDEF	PUTSYM	GETSYM	BLKDAT				
FM1	-	SCALE3	SCALE2						
FM2	-	SCALE3	SCALE2						
FN	-	SCALE3	SCALE2						
FNDARG	-	PARSE							
FNDREC	-	PUTSYM	GETSYM						
FRAC	-	SCAN							
FRQMHZ	-	PUTKVV	GETKVV						
FSTCHK	-	WRTCHK							
F0	-	ENDCAP	CYLNDR	ENDCAP	CYLNDR				
F1	-	PRTGTD	LNKGTD						
F12	-	ENDCAP	CYLNDR						
F2	-	PRTGTD	LNKGTD						
F3	-	PRTGTD	LNKGTD						
F34	-	ENDCAP	CYLNDR						
F4	-	LNKGTD							
F5	-	LNKGTD							
F56	-	ENDCAP	CYLNDR						
F6	-	LNKGTD							
GAREA	-	GEODRV							
GEODRV	-	TSKXQT							
GEODT	-	RWCOMS							
GETARG	-	GETGEO	GEODRV						
GETGEO	-	PLTDRV							
GETKWD	-	SCAN							
GETKVV	-	DMPDRV							
GETPNT	-	WYDRV	PRTGTD	PLATE	PATCH	LNKGTD	PLTDRV	LNKJCT	LNKGTD
GETSEG	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD
		JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE			
GETSYM	-	WRTCHK	SYNDEF	SUBPAT	RESTR	PUTSYM	PUTSEG	PLTDRV	GETSEG
		GETARG	GEODRV	DMPDRV					
GTOCS	-	LNKGTD	CYLNDR						
GTDOT	-	RWCOMS							
HI	-	SHELL							
I	-	ZZXDUM	WYDRV	SYSRTM	SYMSCH	SUBPAT	STATFN	SHELL	SCALE3
		SCALE2	RWFILS	RWCOMS	RESTR	PUTSYM	PUTSEG	PUTPNT	PRESCH
		PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PAGPLT	MAIN	LNKJCT
		LITSCH	JCTION	INPDRV	IBITCK	GTOCS	GETSYM	GETPNT	GETKWD
		GETGEO	GEODRV	FNDREC	FABLOZ	ERROR	COORDS	CONVRT	CNVGTD
		BUBBLE	BLKDAT						
IABS	-	WYDRV	TSKXQT	PRESCH	POSTIP	PLTDRV	PAGPLT	OPNFIL	LNKGTD
		GETARG	FNDARG	DMPDRV	COORDS				
IADD	-	WYDRV							
IADD1	-	WYDRV							
IARG	-	WYDRV							

INPUT Module

I N D E X

***** SUPER INDEX *****

IARGS	-	WYRDRV							
IAXIS	-	WYRDRV	BLKDAT						
ID	-	SUBPAT	BUBBLE						
IGAND	-	PUTSYM	GETSYM	FNDREC					
IDB	-	SUBPAT	BUBBLE						
IDIT	-	IDITCK							
IDITCK	-	SYNDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	EFOGEO	DMPDRV
IDITR	-	DMPDRV							
IDITS	-	SYNDEF	GEODRV						
IDIT1	-	SYNDEF	DMPDRV						
IDIT2	-	DMPDRV							
IDLANK	-	SCAN	BLKDAT						
IDLK	-	SUBPAT	JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE		
IDLKK	-	GETGEO	BUBBLE						
IDLKKK	-	SUBPAT							
IDLKL	-	WLKCK							
IDLKSV	-	SUBPAT							
IDUF	-	WYRDRV							
IC	-	SYSRTN	SUBPAT	COORDS					
ICALL	-	WYRDRV	POSTIP	PARSE	INPDRV	FNDARG			
ICASE	-	PUTSEG							
ICHAR	-	CONVRT							
ICHKPT	-	RESTRY							
ICKFIL	-	WRTCHK							
ICKLOP	-	RESTRY							
ICLEAR	-	PRESCH							
ICNECT	-	JCTION							
ICOL	-	SUBPAT							
ICOLSV	-	SUBPAT							
ICOM	-	RWCOMS							
ICOMMA	-	SCAN	BLKDAT						
ICOMSV	-	RWCOMS							
ICON	-	SUBPAT	CNVGTD						
ICONT	-	SUBPAT							
ICON1	-	SUBPAT							
ICON2	-	SUBPAT							
ICPTSK	-	PRESCH							
ICS	-	WYRDRV	PATCH	COORDS					
ICSAV	-	COORDS							
ICSSAV	-	WYRDRV	PATCH						
ICSYS	-	WYRDRV	PRTGTD	LNKGTD	GTDCS	CYLNDR			
ICYL	-	PRTGTD	LNKGTD						
ICYLN	-	ENDCAP							
ICYLPY	-	PRTGTD	LNKGTD						
ICYTAG	-	PRTGTD	LNKGTD	CYLNDR	BLKDAT				
ID	-	CONVRT							
IDATA	-	PREPAR	POSTPR	POSTIP					
IDATE	-	SYSRTN							
IDAY	-	MAIN							
IDCSYS	-	WYRDRV	GTDCS	GEODRV	COORDS	BLKDAT			

INPUT Module

I N D E X

***** SUPER INDEX *****

IDEF	-	WYRDRV							
IDEFIN	-	WYRDRV	GEODRV	BLKDAT					
IDFINS	-	WYRDRV	GEODRV	BLKDAT					
IDIG	-	SCAN	BLKDAT						
IDOLAR	-	BLKDAT							
IEC	-	LNKGTD							
IECPT	-	PRTGTD	LNKGTD						
IECPT1	-	LNKGTD							
IECPT2	-	LNKGTD							
IECTAG	-	PRTGTD	LNKGTD	ENDCAP	BLKDAT				
IECO	-	LNKGTD							
IECOPT	-	LNKGTD							
IEC1	-	PRTGTD	LNKGTD						
IEC2	-	PRTGTD	LNKGTD						
IEND	-	SYMSCH	LITSCH	GEODRV					
IEND1	-	GEODRV	CNVGTD						
IEND2	-	GEODRV	CNVGTD						
IEOF	-	WRTCHK	RWCOMS	RESTR					
IEQUAL	-	DMPDRV	BLKDAT						
IERR	-	PLATE	FLTPLT						
IERRF	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	RWFILS	RESTR	RDEFIL
		PUTSYM	PUTPNT	PUTKVV	PRESCN	OPNFIL	MOVFIL	GETSYM	GETKVV
		FNDREC	ERROR	DMPDRV	COORDS	CNVGTD	BLKDAT		
			SUBPAT	RWFILS	PUTSYM	MOVFIL	GETSYM	FNDREC	CLSFIL
IFILE	-	SYMUPD							
IFIRST	-	LNKJCT							
IFIX	-	SYSRTN	STATFN	PAGPLT	ENDCAP	CYLNDR			
IFLE	-	MOVFIL							
IFLG	-	LITSCH							
IFLNAM	-	RWCOMS							
IFOUND	-	WYRDRV	SCAN						
IF1	-	PUTSYM							
IF2	-	PUTSYM							
IG	-	PRTGTD	PLTSEG	LNKGTD					
IGBLK	-	PRTGTD	LNKGTD						
IGBLKK	-	PRTGTD	PLTSEG	LNKGTD					
IGBLK1	-	PRTGTD	PLTSEG						
IGEOBT	-	EFDGEO							
IGLIM	-	PRTGTD	PLTSEG	LNKGTD					
IGLIN1	-	PRTGTD	PLTSEG						
IGLOW	-	PRTGTD	PLTSEG	LNKGTD					
IGLOW1	-	PRTGTD	PLTSEG						
IGNORE	-	WYRDRV	SCAN	INPDRV	BLKDAT				
IG1	-	PRTGTD	PLTSEG						
INIT	-	CNVGTD							
INITPL	-	PLTSEG							
II	-	PAGPLT	GTDCS	COORDS					
IJ	-	SYSRTN							
IJCONT	-	JCTION							
IJCT	-	LNKJCT							
IJMOD	-	PUTSYM	GETSYM	FNDREC					

INPUT Module

INDEX

***** SUPER INDEX *****

ILAST	-	LNKJCT							
ILBL	-	PLTDRV							
ILCNXT	-	PRESCN							
ILEFT	-	DMPDRV	BLKDAT						
ILIM	-	SUBPAT	PLTDRV	JCTION	GEODRV	CNVGTD	BUBBLE		
ILINE	-	GEODRV							
ILOW	-	BUBBLE							
ILOWER	-	PUTSYM	GETSYM	FNDREC					
ILP	-	DMPDRV							
ILPBLK	-	LNKJCT	JCTION	GEODRV					
ILIM	-	GETGEO							
IM	-	SHELL							
IMDCHK	-	WRTCHK	STATFN	RESTR	PUTSYM	BLKDAT			
IMINUS	-	SCAN	PLIST	LITSCH	JCTION	FNDARG	DMPDRV	BLKDAT	
IMN	-	WYRDRV							
IM1	-	PAGPLT	IBITCK						
IN	-	SCAN							
INAME	-	BLKDAT							
INBLKS	-	SUBPAT							
INC	-	SYMLIT	PLIST	PARSE	FNDARG				
INCCHK	-	SYSCHK							
INCTAG	-	WYRDRV							
IND	-	CONVRT							
INDEX	-	TSKXQT	SYMSCH	SYMLIT	SCAN	PLIST	PARSE	LITSCH	GETKWD
		FNDARG	BUBBLE						
INDEX1	-	SYMLIT							
INDKWN	-	MAIN							
INDX	-	MAIN	EFDGEO						
INDXA	-	TSKXQT	EFDGEO						
INDXB	-	TSKXQT	EFDGEO						
INDXP1	-	RWCOMS							
INDXB	-	WLKBCK	TRCEBK	RWCOMS	BLKDAT				
INDXX	-	TSKXQT							
INEED	-	PRTGTD							
INEG	-	CNVGTD							
INEU	-	SYMDEF							
INP	-	WYRDRV							
INPBLK	-	SUBPAT	PRTGTD	LNKGTD	JCTION	GEODRV	BUBBLE		
INPDRV	-	MAIN							
INPP3	-	WYRDRV							
INPP4	-	WYRDRV							
INPP5	-	WYRDRV							
INT	-	PUTKWD	GETARG						
INTARG	-	ZZXDUM	WYRDRV	TSKXQT	SYMDEF	RESTR	PLTDRV	OPNFIL	MAIN
		GETGEO	GETARG	GEODRV	EFDGEO	DMPDRV	BLKDAT		
INTBCD	-	CONVRT							
INTLIT	-	PRESCN							
INTM	-	RWCOMS							
INTOVR	-	SCAN							
INTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				

INPUT Module

I N D E X

***** SUPER INDEX *****

INTWRD	-	CONVRT							
IO	-	LNKJCT							
IOCKPT	-	WRTCHK	RWCOMS	RESTRY	RDEFIL	PUTSYM	BLKDAT		
IOD	-	LNKJCT							
IOFILE	-	WRTFIL	WRTCHK	SYMDEF	SUBPAT	RWCOMS	RDEFIL	PUTSYM	OPNFIL
		MOVFIL	GETSYM	GEODRV	ERROR	CLSFIL	BUBBLE	BLKDAT	
IOFLS	-	RWCOMS							
IOGEOM	-	GEODRV							
IOP	-	ROTATE							
IOPR	-	DMPDRV							
IORDER	-	PUTSYM	GETSYM	FNDREC					
IOSCRT	-	PUTSYM							
IOSCR1	-	SYMDEF	PUTSYM	GEODRV	BLKDAT				
IOSCR2	-	SYMDEF	SUBPAT	PUTSYM	BUBBLE	BLKDAT			
IOSTOR	-	SYMDEF							
IOSYMB	-	SYMDEF	BLKDAT						
IOTASK	-	BLKDAT							
IP	-	SUBPAT	SCAN	PUTPNT	PLTSEG	JCTION	GEODRV	BUBBLE	
IPAREN	-	DMPDRV							
IPASS	-	TSKXQT	SYMDEF	PLTDRV	GETARG	GEODRV	EFDGEO	DMPDRV	
IPAT	-	GEODRV							
IPBLK	-	SUBPAT	JCTION	GEODRV					
IPBLKK	-	SUBPAT	JCTION	GEODRV					
IPCNI	-	SUBPAT							
IPCNI	-	SUBPAT							
IPER	-	SCAN	BLKDAT						
IPERF	-	PUTKVV							
IPL	-	WYDRV							
IPLIM	-	SUBPAT	JCTION	GEODRV	BUBBLE				
IPLOW	-	SUBPAT	PLTSEG	JCTION	GEODRV	BUBBLE			
IPLTAG	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLATE	LNKGTD	GETSEG
		GEODRV	ENDCAP	CYLNDR	BUBBLE	BLKDAT			
IPLUS	-	SCAN	LITSCH	JCTION	FNDARG	DMPDRV	BLKDAT		
IPL1	-	WYDRV							
IPMAX	-	PLTSEG							
IPOS	-	CNVGTD							
IPROVR	-	SCAN							
IPSARG	-	POSTPR	PARSE						
IPSARI	-	PARSE							
IPSDAT	-	POSTPR	PARSE						
IPSLIT	-	POSTPR	PARSE						
IPSLOO	-	POSTPR	PARSE						
IPSTSK	-	POSTPR	PARSE						
IPT	-	WYDRV	PUTPNT	PLATE	PATCH	ENDCAP	CYLNDR		
IPTAG	-	JCTION							
IPTBUF	-	GEODRV	BLKDAT						
IPTNUM	-	WYDRV							
IPTS	-	PUTPNT	GETPNT	GEODRV	BLKDAT				
IPTTAG	-	WYDRV							
IPTTBL	-	WYDRV	PUTPNT	JCTION	GETPNT	GEODRV	BUBBLE	BLKDAT	

INPUT Module

I N D E X

***** SUPER INDEX *****

IPT1	-	WYDRV							
IPY2	-	WYDRV							
IPWR	-	SCAN							
IPWR2	-	IDITCK							
IP1	-	WYDRV	PAGPLT	GETPNT					
IP1SV	-	GETPNT							
IP2	-	WYDRV	GETPNT						
IP2SV	-	GETPNT							
IP217	-	WYDRV	SUBPAT	PUTSEG	PRIGTD	PLTSEG	PLTORV	PLATE	LNKJCT
		LNKGTD	JCTION	GETSEG	GEODRV	ENDCAP	CYLNDR	CNVGTD	BUBBLE
		BLKDAT							
IR	-	PUTSYM	GETSYM						
IRAD	-	WYDRV							
IRADSV	-	WYDRV							
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECND	-	PUTSYM							
IRECNW	-	PUTSYM	GETSYM						
IRECS7	-	GETSYM							
IREC1	-	PUTSYM	GETSYM						
IREC2	-	PUTSYM	GETSYM						
IRF	-	REFLCT							
IRFLC	-	WYDRV							
IRIGHT	-	SCAN	DMPDRV	BLKDAT					
IROW	-	SUBPAT							
IROWM1	-	PUTSYM	GETSYM						
IRP	-	DMPDRV							
IRSTRT	-	RESTRT	PUTSYM						
IR1	-	RUFILS	PUTSYM	GETSYM					
IR2	-	PUTSYM	GETSYM						
IS	-	WYDRV	SCAN	PUTSEG	PLTORV	PATCH	PAGPLT	LNKJCT	JCTION
		CNVGTD	BUBBLE						
		JCTION							
ISAV	-	WYDRV							
ISAV2	-	TSKXGT							
ISAV3	-	TSKXGT							
ISDLNK	-	PAGPLT							
ISCALE	-	WYDRV	BLKDAT						
ISDASH	-	PAGPLT							
ISDBON	-	RESTRT							
ISDOT	-	PAGPLT							
ISEG	-	PUTSEG	PLTORV	GETSEG	GETGEO	GEODRV	BLKDAT		
ISEG5V	-	WYDRV	SUBPAT						
ISEG1	-	WYDRV							
ISEG2	-	WYDRV							
ISEYTD	-	BLKDAT							
ISG	-	WYDRV	PUTSEG	PLATE	LNKJCT	ENDCAP	CYLNDR		
ISGN	-	LNKGTD							

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ISGTBL	-	WYDRV	WRTCHK	TSKXQT	SUBPAT	RWFILS	RESTRY	PUTSEG	PUTPNT
		PRTGTD	PLTSEG	PLTDRV	PLATE	PATCH	LNKJCT	LNKGTD	JCTION
		GETSEG	GETGEO	GEODRV	ENDCAP	CYLNR	CNVGTD	BUBBLE	BLKDAT
ISG1	-	WYDRV							
ISG2	-	WYDRV							
ISHIFT	-	SCAN							
ISLASH	-	SCAN							
ISOFF	-	WYDRV	DMPDRV	BLKDAT					
		RWFILS	WRTCHK	TSKXQT	SYMSCH	SYMLIT	SUBPAT	STATFN	SCAN
		PLATE	RWCOMS	ROTATE	RESTRY	PUTSYM	PUTSEG	PLTSEG	PLIST
		INPDRV	PATCH	PARSE	MAIN	LNKJCT	LNKGTD	LITSCH	JCTION
		ENDCAP	GETSYM	GETSEG	GETARG	FNDREC	FNDARG	FLTPLT	ERROR
ISON	-	WYDRV	DMPDRV	CYLNR	CONVRT	CNVGTD	CLSFIL	BUBBLE	BLKDAT
		SUBPAT	WRTFIL	WRTCHK	TSKXQT	SYMSCH	SYMUPD	SYMSCH	SYMDEF
		RDEFIL	STATOT	STATIN	STATFN	SCAN	RWFILS	RWCOMS	RESTRY
		PLATE	PUTSYM	PUTPNT	PUTKWV	PRESCN	PREPAR	POSTPR	PLTDRV
		JCTION	PATCH	PARSE	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
		ERROR	INPDRV	GETSYM	GETKWV	GEODRV	FNDREC	FNDARG	FLTPLT
		BLKDAT	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS	CNVGTD	BUBBLE
ISP	-	JCTION							
ISPLUS	-	PAGPLT							
ISSTAR	-	PAGPLT							
ISSUE	-	MAIN							
ISTAR	-	SCAN	DMPDRV	BLKDAT					
ISTAT	-	OPNFIL							
ISTRDT	-	RESTRY							
ISUB	-	SUBPAT							
ISV	-	PUTSYM	GETSYM	FNDREC					
ISW	-	PUTSYM	JCTION						
ISYM	-	WYDRV	PAGPLT						
ISYMBL	-	SCAN	PREPAR	POSTPR	POSTIP	BLKDAT			
ISZERO	-	WYDRV	PATCH						
ISZERO	-	PATCH							
IS1	-	PLTDRV							
IS2	-	PLTDRV							
IT	-	PUTSYM	GETSYM						
ITAG	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	PLATE	PATCH
		LNKGTD	JCTION	GETSEG	GEODRV	ENDCAP	CYLNR	BUBBLE	
ITAGID	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLATE	LNKGTD	GETSEG
		GEODRV	ENDCAP	CYLNR	BUBBLE	BLKDAT			
ITAGSV	-	WYDRV							
ITASK	-	TSKXQT	PRESCN	POSTIP					
ITEMCD	-	PLIST							
ITEMP	-	WRTCHK	SYMDEF	RWFILS	RESTRY	PUTSYM	PLTDRV	MOVFIL	MAIN
		GEODRV	DMPDRV	BLKDAT					
ITEMS	-	STATFN	SHELL						
ITG	-	WYDRV	PUTSEG						
ITIME	-	SYSRTN	MAIN						
ITP	-	PRTGTD	LNKGTD						
ITPARG	-	ENDCAP	CYLNR						

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ITYPDE	-	WYDRV	BLKDAT						
ITYPE	-	WYDRV	PRTGTD	PRESCH	PAGPLT	LNKGTD			
ITYPPL	-	WYDRV	BLKDAT						
ITYPPT	-	WYDRV	BLKDAT						
ITYPTG	-	WYDRV	BLKDAT						
IT1	-	PLTDRV							
IT2	-	PLTDRV							
IUPPER	-	PUTSYM	GETSYM	FNDREC					
IW	-	JCTION							
IWBLK	-	JCTION							
IWBLKK	-	JCTION							
IWSAV	-	RWCOMS							
IWLIM	-	JCTION							
IWORDS	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRNLAT	TRCEBK
		SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
		ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKVV	PRTGTD
		PRESCH	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
		LITSCH	JCTION	INPORV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
		GETKVV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLO2	ERROR	ENDCAP	EFGEO	DMPDRV	CYLNDR	COORDS	CONVRT
		CHVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
IUPFG	-	BUBBLE							
IWRBLK	-	CHVGTD							
IWRB	-	IBITCK	FNDREC						
IWRDS3	-	FABLO2							
IWRD1	-	PUTSYM	GETSYM						
IWRTCK	-	WRTCHK	PUTSYM						
IX	-	PLTDRV	LNKGTD						
IXAXIS	-	PLTDRV							
IX1	-	WYDRV	PUTSEG						
IY	-	PLTDRV	PAGPLT						
IYAXIS	-	PLTDRV							
IYR	-	WYDRV							
IYRLOC	-	GETGEO							
IZ3	-	PUTSEG							
IO	-	ENDCAP	CYLNDR						
I1	-	WYDRV	TRCEBK	PRTGTD	PRESCH	PAGPLT	LNKGTD	GETPNT	ENDCAP
		CYLNDR							
12	-	TRCEBK	PRTGTD	POSTPR	PAGPLT	LNKGTD	GETPNT		
13	-	PRTGTD	POSTPR	LNKGTD					
14	-	LNKGTD							
15	-	POSTPR	LNKGTD						
16	-	LNKGTD							
J	-	WYDRV	SYSRTN	SUBPAT	STATFN	SHELL	PUTSYM	PUTSEG	PRESCH
		PREPAR	POSTPR	POSTIP	PLTDRV	PAGPLT	JCTION	GETSYM	GETKWD
		GEODRV	FNDREC	FABLO2	BUBBLE				
JAXIS	-	REFLCT	PLTDRV						
JBIA51	-	LNKJCT	GEODRV	BLKDAT					

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JBIAS2	-	LNKJCT	GEODRV	BLKDAT					
JBIAS3	-	SUBPAT	LNKJCT	GEODRV	BLKDAT				
JBIT	-	IBITCK							
JBLK	-	JCTION							
JCARD	-	INPDRV							
JCBIAS	-	LNKJCT	JCTION	GEODRV	BLKDAT				
JCNECT	-	JCTION							
JCT	-	LNKJCT	JCTION						
JCTCON	-	JCTION							
JCTION	-	GEODRV							
JCTND1	-	LNKJCT							
JCTND2	-	LNKJCT							
JCTNEG	-	JCTION							
JCTNUM	-	LNKJCT							
JCTPOS	-	JCTION							
JCTWRD	-	LNKJCT							
JDIG	-	SCAN	BLKDAT						
JHOURS	-	SYSRTN							
JJ	-	SUBPAT							
JLIM	-	JCTION							
JMAX	-	SUBPAT							
JMINIT	-	SYSRTN							
JMINUS	-	JCTION							
JNCN	-	RWCOMS							
JP	-	JCTION							
JPBLK	-	JCTION							
JPLIM	-	JCTION							
JPLUS	-	JCTION							
JPTAG	-	JCTION							
JS	-	WYDRV	JCTION						
JSV	-	JCTION							
JSG	-	PUTSEG							
JSP	-	JCTION							
JSTRT	-	PRESCN							
JTAG	-	JCTION							
JTASK	-	PRESCN							
JTG	-	PUTSEG							
JWRD	-	IBITCK							
J1	-	JCTION							
K	-	SUBPAT	SHELL	PREPAR	POSTPR	PLTDRV	PLIST	CONVRT	CNVGTD
KAXIS	-	PLTDRV							
KBAND	-	PUTSYM	GETSYM	FNDREC					
KBBAND	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBBITS	-	BLKDAT							
KBCPLX	-	SYNDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	DMPDRV	BLKDAT
KBDPRE	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBFFLD	-	BLKDAT							
KBFULL	-	BLKDAT							
KBGEOM	-	RWFILS	PLTDRV	GEODRV	EFDGEO	BLKDAT			
KBINTP	-	BLKDAT							

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KBLEFT	-	BLKDAT							
KBLK	-	LNKJCT	JCTION						
KBLOAD	-	BLKDAT							
KBLWRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBNFLD	-	BLKDAT							
KBORDR	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBPVIT	-	BLKDAT							
KOREAL	-	SUBPAT	GEODRV	DMPDRV	BLKDAT				
KBSNGL	-	BLKDAT							
KBSOLN	-	BLKDAT							
KBSRCE	-	BLKDAT							
KBSYM	-	BLKDAT							
KBSYMY	-	BLKDAT							
KBTXT	-	BLKDAT							
KBUPRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBZIMP	-	BLKDAT							
KCHKPT	-	BLKDAT							
KEN	-	SUBPAT							
KGEOM	-	RWFILS							
KINPUT	-	BLKDAT							
KJFLD	-	BLKDAT							
KJGTO	-	BLKDAT							
KJINT	-	BLKDAT							
KJHOR	-	BLKDAT							
KKK	-	PLTDRV							
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLN	-	SYMUPD							
KODE	-	PREPAR							
KOL	-	SYMUPD							
KOLAST	-	SYMUPD	SYMDEF	PUTSYM	GEODRV	FNDREC	BLKDAT		
KOLBIT	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	EFDGEO
		DMPDRV	BLKDAT						
KOLCNT	-	TSKXQT	INPDRV	FNDARG	BLKDAT				
KOLCDD	-	LITSCH	GETARG	DMPDRV	BLKDAT				
KOLCOL	-	SYMUPD	SYMDEF	SUBPAT	RWFILS	RESTRT	PUTSEG	PLTDRV	GETGEO
		DMPDRV	BLKDAT						
KOLFST	-	SYMUPD	SYMDEF	PUTSYM	GETSYM	FNDREC	BLKDAT		
KOLLBL	-	FNDARG	BLKDAT						
KOLLNK	-	TSKXQT	SYMUPD	PUTSYM	PLTDRV	GETSYM	GEODRV	FNDREC	EFDGEO
		BLKDAT							
KOLLOC	-	SYMUPD	SYMDEF	SUBPAT	RWFILS	PUTSYM	GETSYM	GEODRV	FNDREC
		DMPDRV	BLKDAT						
KOLNAM	-	TSKXQT	SYMUPD	SYNSCH	SYMDEF	SUBPAT	RWFILS	RESTRT	PUTSYM
		PLTDRV	GETSYM	GETGEO	GETARG	GEODRV	FNDREC	DMPDRV	BLKDAT
KOLROW	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	PLTDRV	GETSYM	FNDREC	DMPDRV
		BLKDAT							
KOLTIM	-	TSKXQT	FNDARG	BLKDAT					
KOLTSK	-	TSKXQT	FNDARG	BLKDAT					
KOLVAL	-	LITSCH	GETARG	DMPDRV	BLKDAT				
KOUNT	-	TSKXQT							

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KOUTPT	-	BLKDAT		
KRSTRT	-	BLKDAT		
KSVMDF	-	BLKDAT		
KSYP	-	PUTKWV		
KTASK	-	PRESCN		
KW	-	PUTKWV	GETKWV	
KWABS	-	BLKDAT		
KWARG	-	PARSE	BLKDAT	
KWARGT	-	PARSE		
KWAXIS	-	BLKDAT		
KWBAND	-	BLKDAT		
KWBCRE	-	BLKDAT		
KWBSCB	-	BLKDAT		
KWBNDW	-	BLKDAT		
KWC	-	BLKDAT		
KWCD	-	BLKDAT		
KWCDP	-	BLKDAT		
KWCHKP	-	RESTR	BLKDAT	
KWCLPS	-	BLKDAT		
KWCNJG	-	BLKDAT		
KWCNVG	-	BLKDAT		
KWCOND	-	PUTKWV	GETKWV	BLKDAT
KWCPNC	-	BLKDAT		
KWCPNM	-	BLKDAT		
KWCR	-	BLKDAT		
KWCS	-	BLKDAT		
KWCW	-	BLKDAT		
KWCY	-	BLKDAT		
KWC1	-	BLKDAT		
KWC2	-	BLKDAT		
KWD	-	BLKDAT		
KWDBUG	-	BLKDAT		
KWDC	-	BLKDAT		
KWDM	-	PARSE		
KWDNAM	-	POSTIP		
KWDNM	-	PARSE		
KWDP	-	BLKDAT		
KWDR	-	BLKDAT		
KWDT	-	BLKDAT		
KWDW	-	BLKDAT		
KWDX	-	BLKDAT		
KWDY	-	BLKDAT		
KWZ	-	BLKDAT		
KWEC	-	BLKDAT		
KWECC	-	BLKDAT		
KWED	-	BLKDAT		
KWEI	-	BLKDAT		
KWEND	-	SCAN	BLKDAT	
KWEPJR	-	PUTKWV	GETKWV	BLKDAT
KWER	-	BLKDAT		

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NAME	TYPE	PARSER	ENDARG	BLKDAT	PUTKVV	PREPAR	POSTPR	POSTIP	MAIN
KWES	-	BLKDAT							
KWESRC	-	BLKDAT							
KWEU	-	BLKDAT							
KWFFLD	-	BLKDAT							
KWFLID	-	BLKDAT							
KWFMTF	-	PLIST	PARSE	FNDARG	BLKDAT				
KWFRQ	-	PUTKVV	GETKVV	BLKDAT					
KWGEOM	-	TSKXQT							
KWGMOT	-	BLKDAT							
KWGT0	-	BLKDAT							
KWILP	-	PLIST	BLKDAT						
KWINPT	-	BLKDAT							
KWINV	-	BLKDAT							
KWIPE	-	BLKDAT							
KWIRE	-	BLKDAT							
KWIS	-	BLKDAT							
KWLABL	-	BLKDAT							
KWLGLG	-	PLTDRV	BLKDAT						
KWLGLN	-	PLTDRV	BLKDAT						
KWLGPO	-	BLKDAT							
KWLMT	-	PARSE	BLKDAT						
KWLNLG	-	PLTDRV	BLKDAT						
KWLNLN	-	BLKDAT							
KWLNP0	-	BLKDAT							
KWLOOP	-	BLKDAT							
KWLU	-	BLKDAT							
KWLU0	-	BLKDAT							
KWMAX	-	MAIN	GETKWD	BLKDAT					
KWMM	-	BLKDAT							
KWMODL	-	BLKDAT							
KWMXIT	-	BLKDAT							
KWMXP1	-	MAIN							
KWN	-	BLKDAT							
KWNAME	-	TSKXQT	SCAN	RESTRT	PUTKVV	PREPAR	POSTPR	POSTIP	MAIN
		GETKVV	GETKWD	BLKDAT					
KWNDEX	-	PLIST							
KWNFLD	-	BLKDAT							
KWNMFL	-	PUTKVV	GETKVV	BLKDAT					
KWNP	-	BLKDAT							
KWNR	-	BLKDAT							
KWNUP	-	PARSE							
KWOFF	-	TSKXQT	FNDARG	BLKDAT					
KWON	-	TSKXQT	BLKDAT						
KWOUTP	-	BLKDAT							
KWPART	-	BLKDAT							
KWPC	-	BLKDAT							
KWPD	-	BLKDAT							
KWPDR	-	BLKDAT							
KWPHI	-	BLKDAT							
KWPIVT	-	BLKDAT							

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KWPL	-	BLKDAT		
KWPLOT	-	BLKDAT		
KWPLSE	-	BLKDAT		
KWPR	-	BLKDAT		
KWPRE	-	BLKDAT		
KWPRGE	-	BLKDAT		
KWPRLC	-	BLKDAT		
KWPRNT	-	BLKDAT		
KWPSN	-	BLKDAT		
KWP1	-	BLKDAT		
KWP2	-	BLKDAT		
KWR	-	BLKDAT		
KWRC	-	BLKDAT		
KWRD	-	BLKDAT		
KWRDP	-	BLKDAT		
KWRDUC	-	BLKDAT		
KWREAD	-	BLKDAT		
KWREPL	-	BLKDAT		
KWRFLC	-	BLKDAT		
KWRITE	-	BLKDAT		
KWRR	-	BLKDAT		
KWRSTR	-	BLKDAT		
KWR1	-	BLKDAT		
KWR2	-	BLKDAT		
KWSC	-	BLKDAT		
KWSCDP	-	BLKDAT		
KWSEGS	-	PLTDRV	BLKDAT	
KWSEQ	-	BLKDAT		
KWSET	-	BLKDAT		
KWSIZE	-	BLKDAT		
KWSMDF	-	BLKDAT		
KWSNCS	-	BLKDAT		
KWSOLV	-	BLKDAT		
KWSR	-	BLKDAT		
KWSRDP	-	BLKDAT		
KWSRLC	-	BLKDAT		
KWSTAT	-	TSKXQT	BLKDAT	
KWSTNT	-	BLKDAT		
KWSW	-	BLKDAT		
KWTAGS	-	PLTDRV	BLKDAT	
KWTDH	-	BLKDAT		
KWTHET	-	BLKDAT		
KWTIME	-	PWTKWV	GETKWV	BLKDAT
KWTKNM	-	PLIST		
KWTRAC	-	TSKXQT	FNDARG	BLKDAT
KWTRAN	-	BLKDAT		
KWTYPE	-	BLKDAT		
KWT1	-	BLKDAT		
KWT2	-	BLKDAT		
KWV	-	BLKDAT		

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KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSRC	-	BLKDAT							
KWX	-	BLKDAT							
KWXPND	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	BLKDAT							
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
L	-	SUBPAT	PLTDRV	PAGPLT	ERROR	DMPDRV			
LABEL	-	PLTDRV							
LASTI	-	PAGPLT							
LCALLR	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRGTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
		COORDS	CNVGTD	BUBBLE	BLKDAT				
LALNM	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRGTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR
		COORDS	CNVGTD	BUBBLE	BLKDAT				
LETR	-	SCAN	BLKDAT						
LIMINR	-	BUBBLE							
LIMSEG	-	PUTSEG	LNKJCT	BUBBLE					
LINDX	-	TSKXQT							
LINE	-	PAGPLT							
LINK	-	PUTSYM	GETSYM	FNDREC					
LINKA	-	TSKXQT							
LINKB	-	EFDGEO							
LITNPX	-	LITSCH	BLKDAT						
LITNUM	-	ZZXDUM	WYDRV	WRTCHK	TSKXQT	SYMUPD	SYMSCH	SYMLIT	SYMDEF
		SUBPAT	SCAN	RWFILS	RESTR	PUTSYM	PUTSEG	PUTKWV	PRESCN
		PREPAR	POSTPR	POSTIP	PLTDRV	PLIST	PATCH	PARSE	OPNFIL

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	MAIN	LITSCH	INPDRV	GETSYM	GETKWV	GETKWD	GETGEO	GETARG
	GEODRV	FNDREC	FNDARG	EFDGEO	DMPDRV	CONVRT	BLKDAT	
LITSCH -	SYMLIT	PARSE	FNDARG					
LITYP -	GETARG	DMPDRV						
LITVAL -	PLTDRV							
LLX -	PLTDRV							
LLY -	PLTDRV							
LNK -	EFDGEO							
LNKBIT -	GEODRV							
LNKGTD -	GEODRV							
LNKJCT -	PLATE							
LNKNUM -	PLATE							
LNKSV -	PRTGTD							
LNLEFT -	PRTGTD							
LNPAGE -	SHELL							
LO -	STATFN	SHELL	PUTSYM	GETSYM	FNDREC			
LOC -	TSKXQT	PRESCN	GETARG	DMPDRV				
LOCARG -	PLTDRV							
LOCC -	LNKGTD							
LOCCYL -	LNKGTD							
LOCEC -	LNKGTD							
LOCEC0 -	LNKGTD							
LOCEC1 -	LNKGTD							
LOCEC2 -	PUTSYM							
LOCEND -	SYMDEF	PUTSYM	GETSYM	FNDREC				
LOCFS -	GETGEO							
LOGEO -	DMPDRV							
LOCLIT -	SYMDEF	PUTSYM	GEODRV	FNDREC				
LOCLST -	GEODRV							
LOCNAM -	PUTSYM	GETSYM	GEODRV					
LOCNOW -	TSKXQT	PRESCN						
LOCNXT -	PRESCN							
LOCPN -	PLTDRV							
LOCR -	PUTSYM	GETSYM						
LOCSTR -	RESTR							
LOCTP0 -	TSKXQT							
LOCTP1 -	TSKXQT	PRESCN						
LOCTSK -	PLTDRV							
LOCX -	PLTDRV							
LOCY -	ENDCAP	CYLNR						
LOC12 -	ENDCAP	CYLNR						
LOC34 -	ENDCAP	CYLNR						
LOC56 -	TSKXQT	FNDARG	BLKDAT					
LOOPMX -	PAGPLT							
LPRPGE -	ZZXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
LROUTN -	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
	RWFILS	RWCOMS	ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
	PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
	PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN

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		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNRD
LRTNUM	-	COORDS	CHVGTD	BUBBLE	BLKDAT				
		ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN
		LNKJCT	LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNRD
LSAVE	-	COORDS	CHVGTD	BUBBLE	BLKDAT				
		ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRNLAT	TRCEBK
		SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
		ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRTGTD
		PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
		LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
		GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNRD	COORDS	CONVRT
		CHVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
LSTARG	-	TSKXQT	POSTIP						
LSTASK	-	PLIST	FNDARG	BLKDAT					
LSTAT	-	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK
		SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RWCOMS	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	LNKJCT
		LNKGTD	LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG
		GETPNT	GETKWV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG
		FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNRD	COORDS
		CHVGTD	BUBBLE	BLKDAT					
LSTBLK	-	LNKJCT							
LSTCHK	-	SYSCHK							
LSTCOL	-	SCAN	LUSTAT	BLKDAT	BLKDAT				
LSTCSV	-	WYRDRV	GTDCS	COORDS					
LSTDAT	-	PLIST	FNDARG	BLKDAT					
LSTDFN	-	WYRDRV							
LSTFNC	-	BLKDAT							
LSTINP	-	BLKDAT							
LSTINT	-	PLIST	FNDARG	BLKDAT					
LSTIOD	-	LNKJCT	BLKDAT						
LSTMN	-	WYRDRV							
LSTMOD	-	STATFN							
LSTNDX	-	LNKJCT							
LSTPT	-	WYRDRV							
LSTSGM	-	WYRDRV							
LSTSYS	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK	SYMDEF	SUBPAT

INPUT Module

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***** SUPER INDEX *****

		STATFN	RESTR	RDEFIL	PUTSYM	PUTKWV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKWV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
LSTTTF	-	TSKXQT	BLKDAT						
LSTWRD	-	PUTSYM	GETSYM						
LTRACE	-	WYDRV	TSKXQT	STATOT	STATIN	FNDARG	BLKDAT		
LUDBUG	-	RESTR	PREPAR	POSTPR	POSTIP	FNDARG	BLKDAT		
LUFIL	-	RESTR	OPNFIL						
LUNIT	-	WRTFIL	RDEFIL						
LUPRNT	-	ZZXDUM	WYDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMUPD	SYMDEF	SUBPAT	STATOT	STATIN	STATFN	SCAN	SCALE3
		SCALE2	RWFILS	RWCOMS	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKWV	PRTGTD	PRESCN	POSTIP	PLTDRV	PLATE	PATCH	PAGPLT
		OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD	JCTION	INPDRV	GTDCS
		GETSYM	GETSEG	GETPNT	GETKWV	GETARG	GEODRV	FNDREC	FNDARG
		FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CNVGTD	BUBBLE
		BLKDAT	ASSIGN						
LUSAVE	-	GEODRV							
LUSTAT	-	SCAN							
LUTASK	-	SCAN	LUSTAT	GEODRV	BLKDAT				
LWRUPR	-	PUTSYM	GETSYM	FNDREC					
M	-	SHELL	PRTGTD	PLTSEG	PLTDRV	PLATE	MAIN	LNKJCT	FLTPLT
MACHIN	-	BLKDAT							
MANTSA	-	IBITCK	BLKDAT						
MATCH	-	WYDRV	SYMSCH	PARSE	FNDARG				
MATNAM	-	PUTSYM	GETSYM	FNDREC					
MATOP1	-	DMPDRV							
MATOP2	-	DMPDRV							
MAXBLK	-	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKGTD	GETSEG	GETGEO
		GEODRV	CNVGTD	BUBBLE					
MAXCDS	-	BLKDAT							
MAXCON	-	BLKDAT							
MAXCSY	-	WYDRV	GEODRV	BLKDAT					
MAXCYL	-	BLKDAT							
MAXDEF	-	WYDRV	GEODRV	BLKDAT					
MAXECP	-	BLKDAT							
MAXELM	-	WYDRV							
MAXPLT	-	BLKDAT							
MAXPTS	-	PUTPNT	GEODRV	BLKDAT					
MAXRAD	-	WYDRV	GEODRV	BLKDAT					
MAXSEG	-	WYDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD
		JCTION	GETSEG	GETGEO	GEODRV	CNVGTD	BUBBLE	BLKDAT	
MAXSTR	-	SYMDEF	PUTSYM	BLKDAT					
MAXWRD	-	PUTSYM	GETSYM						
MAXO	-	WYDRV	SYMDEF	PUTSYM					
MBLK	-	SUBPAT	PLTDRV						
MOLE	-	RWCOMS							
ME	-	PLTSEG	FLTPLT						
MINUS1	-	INPDRV	FNDARG						
MINO	-	SUBPAT	PUTSYM	PUTSEG	PRTGTD	PLTSEG	PLTDRV	PLATE	MAIN
		LNKJCT	LNKGTD	JCTION	GETSYM	GEODRV	FNDREC	CNVGTD	BUBBLE

INPUT Module

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***** SUPER INDEX *****

MITAG	-	WYRDRV							
MKMX	-	PARSE	BLKDAT						
MLIM	-	PLATE							
MLT	-	WYRDRV							
MLTA	-	FNDARG							
MLTARG	-	FNDARG							
MLTJCT	-	LNKJCT	JCTION	GEODRV					
MLTKWD	-	PARSE							
MM	-	PLTSEG							
MMA	-	PRIGTD							
MME	-	PLTSEG							
MMH	-	PLTSEG							
MM	-	WYRDRV	FNDREC						
MOD	-	WYRDRV	SUBPAT	PUTSEG	PRIGTD	PLTSEG	PLTDRV	PLATE	PAGPLT
		LNKJCT	LNKGTD	JCTION	IBITCK	GEODRV	CNVGTD	BUBBLE	
		WRTCHK	STATFN	PUTSYM	BLKDAT				
MODCHK	-	MAIN							
MODCOD	-	STATFN	BLKDAT						
MODLST	-	BLKDAT							
MODMAX	-	WRTCHK	STATFN	MAIN					
MODNAM	-	PUTSYM	GETSYM	FNDREC					
MORE	-	MOVFIL							
MOVE	-	SUBPAT	PUTSYM	GETSYM	GEODRV	BUBBLE			
MOVFIL	-	PUTSYM	MOVFIL						
MOVURD	-	WYRDRV							
MP	-	WYRDRV							
MPT1	-	WYRDRV							
MPT2	-	WYRDRV							
MSAVE	-	STATOT	STATIN						
MSEG1	-	WYRDRV							
MSEG2	-	WYRDRV							
MTAG	-	WYRDRV							
MULOPR	-	OMPDRV							
MXANCT	-	SCAN	BLKDAT						
MXARGS	-	TSKXQT	BLKDAT						
MXARGT	-	FNDARG	BLKDAT						
MXBKUP	-	PLTDRV							
MXBLKP	-	SUBPAT							
MXBLKW	-	SUBPAT	JCTION	GEODRV					
MXCDFG	-	BLKDAT							
MXCYAR	-	CYLNDR	BLKDAT						
MXDPCT	-	BLKDAT							
MXECAR	-	ENDCAP	BLKDAT						
MXEXFP	-	SCAN	BLKDAT						
MXEXPD	-	BLKDAT							
MXFPCT	-	SCAN	BLKDAT						
MXINCT	-	SCAN	BLKDAT						
MXMAT	-	FNDARG	BLKDAT						
MXPLAR	-	PLATE	BLKDAT						
MXSUBS	-	BLKDAT	ASSIGN						
MXSYM8	-	SCAN	BLKDAT						

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***** SUPER INDEX *****

MXWALK	-	WLKBCK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2	FLTPLT					
M2	-	SCALE3	SCALE2	FLTPLT					
N	-	WYRDRV	TSKXQT	SYMUPD	SYMLIT	SYMDEF	SUBPAT	STATOT	STATIN
		SCAN	SCALE3	SCALE2	PUTSYM	PRTGTD	PRESCN	POSTIP	PLTSEG
		PLTDRV	PLIST	PLATE	PATCH	PARSE	PAGPLT	MOVFIL	MAIN
		LUSTAT	INPDRV	GETARG	GEODRV	FNDARG	FLTPLT	ENDCAP	DMPDRV
		CYLNDR	BUBBLE						
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FNDARG			
NAL	-	SCALE3	SCALE2						
NAM	-	RESTRT							
NAMCOM	-	RWCOMS							
NAMCPF	-	RESTRT							
NAMDAT	-	PLTDRV	GEODRV						
NAMDEF	-	BLKDAT							
NAME	-	ZZXDUM	WYRDRV	SYMSCH	SYMDEF	SUBPAT	STATOT	STATIN	RWFILS
		RWCOMS	RESTRT	PUTKWV	POSTIP	PLTDRV	GETKWV	GETKWD	
NAMEA	-	TSKXQT							
NAMEB	-	TSKXQT							
NAMEX	-	TSKXQT							
NAMEYR	-	GETGEO							
NAMFIL	-	DMPDRV							
NAMGEO	-	TSKXQT	GETGEO	GEODRV					
NAMLST	-	GEODRV							
NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPTS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	SYMUPD	PUTSYM	GETSYM	FNDREC				
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	SUBPAT	RESTRT	PUTSEG	GETSEG	GETGEO	GEODRV	BLKDAT	
NAMSRC	-	PLTDRV							
NAMSUB	-	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	TRCEBK	SYSRTN
		SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT	STATIN
		STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS	ROTATE
		RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKWV	PRTGTD	PRESCN
		PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE	PATCH
		PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD	LITSCH
		JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT	GETKWV
		GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT	FABLO2
		ERROR	ENDCAP	EFDGeo	DMPDRV	CYLNDR	COORDS	CNVGTD	CLSFIL
		BUBBLE	ASSIGN						
NAMSYM	-	SYMUPD	GETARG	DMPDRV					
NAMTSK	-	TSKXQT	PREPAR	POSTIP	BLKDAT				
NARGLM	-	FNDARG							
NARGMX	-	SYMLIT	PLIST	PARSE	INPDRV	FNDARG	BLKDAT		

INPUT Module

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***** SUPER INDEX *****

NARGN	-	FNDARG							
NARGS	-	WYRDRV	SCAN	PLATE	ENDCAP	CYLNDR			
NARGTB	-	TSKXQT	SYMLIT	RESTR	PRESCN	POSTPR	POSTIP	PLIST	PARSE
		INPDRV	FNDARG	BLKDAT					
NARGTP	-	FNDARG							
NARITH	-	BLKDAT							
NARROW	-	INPDRV							
NBIT	-	SUBPAT							
NBITS	-	IBITCK							
NBITWO	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBLANK	-	BLKDAT							
NBLK	-	WYRDRV	LNKJCT						
NBS	-	CONVRT							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYTSZ	-	SCAN	CONVRT	BLKDAT					
NC	-	PLTDRV	PLATE						
NCARD	-	SCAN	LUSTAT	INPDRV	BLKDAT				
NCARDS	-	SCAN	INPDRV	BLKDAT					
NCCARD	-	SCAN							
NCCLAS	-	BLKDAT							
NCDNDX	-	POSTIP							
NCONTB	-	PARSE	FNDARG						
NCHAR	-	SCAN	CONVRT	BLKDAT					
NCHLIN	-	PAGPLT							
NCLNK	-	PLATE							
NCODE	-	WYRDRV	SYMSCH	SYMLIT	SCAN	PREPAR	PLIST	PLATE	PATCH
		PARSE	LITSCH	INPDRV	GETKWD	FNDARG	ENDCAP	CYLNDR	BLKDAT
NCODES	-	WYRDRV	TSKXQT	SCAN	RESTR	PUTKWV	PREPAR	POSTPR	POSTIP
		MAIN	GETKWV	GETKWD	GETGEO	GEODRV	BLKDAT		
NCOL	-	BLKDAT							
NCOLS	-	SYMDEF							
NCOL1	-	SYMDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCD	-	SCAN							
NCOMCH	-	SCAN	BLKDAT						
NCOMMA	-	BLKDAT							
NCOMS2	-	RWCOMS							
NCON	-	SUBPAT	CNVGTD	BLKDAT					
NCONCH	-	SCAN	BLKDAT						
NCONT	-	SUBPAT	GEODRV						
NCON1	-	BLKDAT							
NCORN	-	WYRDRV	PRTGTD	PLTSEG	PLATE				
NCYL	-	LNKGTD							
NC1	-	PLTDRV							
NC2	-	PLTDRV							
NDA7BL	-	TSKXQT	SYMUPD	SYMSCH	SYMDEF	SUBPAT	RWFILS	RESTR	PUTSYM
		POSTPR	POSTIP	PLTDRV	GETSYM	GETGEO	GETARG	GEODRV	FNDREC
		EFOGEO	DMPDRV	BLKDAT					

INPUT Module

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***** SUPER INDEX *****

NDATMX	-	SYMSCH	SYMDEF	FNDARG	BLKDAT				
NDCARD	-	SCAN							
NDEBUF	-	GEODRV	BLKDAT						
NDEBUG	-	RESTR	PREPAR	POSTPR	FNDARG				
NDF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	SCAN	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC
		CLSFIL	BLKDAT						
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDTASK	-	PARSE	BLKDAT						
NDX	-	WYDRV	TSKXGT	PUTKWV	PLTDRV	GETKWV			
NDXARG	-	GETARG	FNDARG	EFDGEO	DMPDRV				
NDXBLK	-	WYDRV	SUBPAT	RESTR	PUTSEG	PRGTGD	PLTSEG	LNKJCT	JCTION
		GETSEG	GEODRV	BUBBLE					
NDXDAT	-	PLTDRV							
NDXEND	-	SCAN							
NDXERR	-	WYDRV							
NDXGEN	-	PLTDRV							
NDXKWD	-	PUTKWV	GETKWV						
NDXKYW	-	DMPDRV							
NDXNAM	-	POSTIP							
NDXNCD	-	RESTR							
NDXOFF	-	WYDRV							
NDXON	-	WYDRV							
NDXRX	-	WYDRV							
NDXRY	-	WYDRV							
NDXRZ	-	WYDRV							
NDXSAV	-	PLTSEG							
NDXTRC	-	WYDRV							
NDXTSK	-	POSTIP							
NEC	-	PRGTGD	LNKGTD						
NECO	-	LNKGTD							
NEED	-	SYMDEF							
NELMNT	-	SUBPAT							
NENDCD	-	BLKDAT							
NEOFLG	-	WYDRV	BLKDAT						
NERCL1	-	BLKDAT							
NERCOD	-	GETKWD	BLKDAT						
NERCON	-	BLKDAT							
NERDPN	-	BLKDAT							
NEREOF	-	BLKDAT							
NEREXD	-	BLKDAT							
NEREXF	-	BLKDAT							
NEREXP	-	BLKDAT							
NERINT	-	BLKDAT							
NERNAM	-	BLKDAT							
NEWDAT	-	SYMUPD							
NEWNAM	-	WYDRV	SYMUPD						
NEWNUM	-	WYDRV							

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NEWSEG -	BUBBLE							
NEWSYM -	SYNDEF							
NEXTI -	PAGPLT							
NFILE -	RWFILS							
NFILES -	SYNDEF	RWCOMS	PUTKVV	GETKVV	ERROR	BLKDAT		
NFINCD -	RESTRY	PARSE	INPDRV	BLKDAT				
NFLDS -	SCAN							
NFRAC -	BLKDAT							
NG -	GEODRV							
NI -	PAGPLT							
NILEGL -	BLKDAT							
NINT -	BLKDAT							
NITEMS -	STATFN	SHELL						
NI1 -	POSTPR							
NI2 -	POSTPR							
NI3 -	POSTPR							
NI4 -	POSTPR							
NI5 -	POSTPR							
NKEYW -	PARSE	FNDARG						
NLETR -	BLKDAT							
NLOOP -	INPDRV	FNDARG						
NLOOPS -	TSKXQT	POSTPR	POSTIP	INPDRV	FNDARG	BLKDAT		
NM -	PLATE	PARSE	ENDCAP	CYLNDR				
NMARG -	PRESCN							
NMARGS -	POSTIP							
NMKWDS -	PARSE							
NMLITN -	POSTIP							
NMLOOP -	POSTIP							
NMLTKV -	PARSE							
NMNAHS -	BLKDAT							
NMOD -	PAGPLT							
NMP -	WYRDRV							
NMSPTR -	BLKDAT							
NMSYMB -	POSTIP							
NMTASK -	POSTIP							
NMTIMS -	BLKDAT							
NMWDRS -	RWCOMS							
NM1 -	PRESCN							
NN -	SUBPAT	PATCH	GEODRV					
NNCON -	SUBPAT							
NNDEX -	BUBBLE							
NNN -	PLTDRV							
NOEND -	BLKDAT							
NOGOFG -	WYRDRV	TSKXQT	SUBPAT	SCAN	RWCOMS	PLTDRV	PLATE	PATCH
	MAIN	LNKJCT	LNKGTD	JCTION	INPDRV	GEODRV	ENDCAP	EFDGEO
	DMPDRV	CYLNDR	CNVGTD	BUBBLE	BLKDAT			
NOLD -	SUBPAT							
NOMTCH -	SYMSCH	PARSE	FNDARG					
NOP -	TSKXQT	TRNLAT	ROTATE					
NOPCOD -	TSKXQT	SUBPAT	RESTRY	PLTDRV	PARSI	LIISCH	INPDRV	GETARG

INPUT Module

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***** SUPER INDEX *****

NOPNAM -	GEODRV	EFDGEO	DMPDRV	BLKDAT				
NORM -	CONVRT							
NOSTAT -	PATCH							
	ZZXDUM	WYRDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRNLAT	TRCEBK
	SYSRTN	SYSCHK	SYMUPD	SYMSCH	SYMLIT	SYMDEF	SUBPAT	STATOT
	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
	ROTATE	RESTRT	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKVV	PRTGTD
	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
	PATCH	PARSE	PAGPLT	OPNFIL	MOVFIL	MAIN	LNKJCT	LNKGTD
	LITSCH	JCTION	INPDORV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
	GETKVV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLY
	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CONVRT
	CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
NOTASK -	BLKDAT							
NP -	SCAN	SCALE3	SCALE2	PUTSYM	PLTDRV	PAGPLT		
NPARAM -	PLIST							
NPAREN -	BLKDAT							
NPARGL -	SYMLIT	POSTPR	POSTIP	PLIST	PARSE	INPDORV	FNDARG	
NPARGT -	FNDARG							
NPATCH -	WYRDRV	SUBPAT	PUTSEG	PRTGTD	PLTSEG	PLTDRV	LNKJCT	LNKGTD
	JCTION	GETGEO	GEODRV	BUBBLE	BLKDAT			
NPDA5V -	SYMDEF							
NPDATA -	SYMUPD	SYMSCH	SYMDEF	SUBPAT	RWFILS	RESTRT	PUTSYM	POSTPR
	POSTIP	PLTDRV	PARSE	INPDORV	GETSYM	GETARG	FNDREC	EFDGEO
	DMPDRV							
NPEAR -	SYMLIT	PLIST	PARSE	INPDORV	FNDARG	BLKDAT		
NPEDPC -	BLKDAT							
NPEDPL -	BLKDAT							
NPEDRM -	BLKDAT							
NPEIFO -	PARSE	BLKDAT						
NPEKWD -	BLKDAT							
NPELAB -	FNDARG	BLKDAT						
NPELIT -	LITSCH	INPDORV	BLKDAT					
NPELNF -	INPDORV							
NPELNL -	FNDARG	BLKDAT						
NPELOO -	INPDORV	FNDARG	BLKDAT					
NPELOP -	FNDARG	BLKDAT						
NPELST -	PLIST	BLKDAT						
NPENOI -	PLIST	BLKDAT						
NPENOM -	SYMSCH	BLKDAT						
NPENRG -	BLKDAT							
NPENTK -	BLKDAT							
NPENUM -	LITSCH	BLKDAT						
NPERGE -	PLIST	BLKDAT						
NPEROD -	BLKDAT							
NPESCN -	PARSE	INPDORV	FNDARG	BLKDAT				
NPESEX -	SYMSCH	BLKDAT						
NPESYM -	SYMSCH	INPDORV	BLKDAT					
NPETSK -	PARSE	INPDORV	BLKDAT	FNDARG	BLKDAT			
NPLITN -	POSTPR	POSTIP	PARSE	LITSCH	INPDORV			

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***** SUPER INDEX *****

NPLOOP -	POSTPR	POSTIP	PARSE	INPDRV	FNDARG			
NPRBUF -	RWFILS	MOVFIL						
NPRDEF -	GEODRV	BLKDAT						
NPRELM -	RWFILS	PUTSYM	GETSYM	FNDREC				
NPRMSG -	WYDRV	FABLO2						
NPRPLT -	PLTDRV							
NPRPRT -	PUTSYM	MAIN	GETSYM	FNDREC				
NPRPT -	GEODRV	BLKDAT						
NPRREC -	RWFILS	PUTSYM	PLTDRV	GETSYM	GEODRV	FNDREC		
NPRSEG -	SUBPAT	PUTSEG	GEODRV	BUBBLE	BLKDAT			
NPRSER -	SYMSCH	SYMLIT	PLIST	PARSE	LITSCH	INPDRV	FNDARG	BLKDAT
NPSAV -	DMPDRV							
NPTASK -	TSKXQT	RESTR	PRESCN	POSTPR	POSTIP	PARSE	INPDRV	FNDARG
NPTBUF -	GEODRV	BLKDAT						
NPTS -	WYDRV	GETPNT						
NPTSAV -	WYDRV							
NP1 -	SCAN							
NR -	PLTDRV							
NRAD -	WYDRV	GEODRV						
NRDCDF -	INPDRV							
NREAD -	WRTCHK	RWFILS	RWCOMS	RESTR				
NRECS -	RWFILS	PUTSYM						
NRESTF -	PARSE	INPDRV						
NRF -	WYDRV							
NRFL -	WYDRV							
NRFP4 -	WYDRV							
NRFP5 -	WYDRV							
NRNAMS -	STATFN	BLKDAT	ASSIGN					
NROWS -	SYMDEF							
NROW1 -	SYMDEF	DMPDRV						
NROW2 -	DMPDRV							
NRSTR -	PRESCN	PARSE						
NRSUBS -	STATFN	RWCOMS	BLKDAT					
NRTIMS -	STATIN	STATFN	RWCOMS	BLKDAT				
NR1 -	PLTDRV							
NR2 -	PLTDRV							
NS -	SYMUPD	SYMDEF	RWFILS	BUBBLE				
NSCNER -	WYDRV	SCAN	INPDRV	GETKWD	BLKDAT			
NSCOL -	SCAN							
NSEG -	WYDRV							
NSGSAY -	WYDRV							
NSGTBL -	PLATE	ENDCAP	CYLNR					
NSH -	CONVRT							
NSHFTS -	BLKDAT							
NSIGN -	LITSCH							
NSTEP -	PARSE							
NSYMBL -	SYMUPD	SYMDEF						
NT -	TSKXQT							
NTAB -	SYMSCH	SYMLIT	SCAN	PLIST	PARSE	LITSCH	GETKWD	FNDARG
	BLKDAT							

INPUT Module

I N D E X

***** SUPER INDEX *****

NTABSV	-	SCAN							
NTAB1	-	SCAN							
NTALPH	-	WYRDRV	SYMLIT	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PATCH
		PARSE	LITSCH	FNDARG	BLKDAT				
NTASK	-	PARSE	BLKDAT						
NTASKS	-	BLKDAT							
NTDM	-	PARSE	BLKDAT						
NTDPF1	-	BLKDAT							
NTDPF2	-	BLKDAT							
NTEMPS	-	RWFILS	PUTSYM	MOVFIL	BLKDAT				
NTEND	-	SCAN	PREPAR	PLIST	PARSE	FNDARG	BLKDAT		
NTERR	-	PREPAR	PLIST	LITSCH	BLKDAT				
NTFLPT	-	WYRDRV	SCAN	PLATE	PARSE	LITSCH	GETARG	FNDARG	ENDCAP
		DMPDRV	CYLNDR	BLKDAT					
NTFMTP	-	PARSE	FNDARG						
NTFP	-	PARSE	FNDARG						
NTFTLM	-	PARSE							
NTINT	-	WYRDRV	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PLATE	PATCH
		PARSE	LITSCH	GETARG	GEODRV	FNDARG	ENDCAP	DMPDRV	CYLNDR
		BLKDAT							
NTKEYW	-	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PARSE	LITSCH	GETKWD
		FNDARG	DMPDRV	BLKDAT					
NTPARG	-	GETARG							
NTPGTD	-	PRTGTD	LNKGTD	BLKDAT					
NTRBLK	-	PUTSEG							
NTRY	-	PRTGTD	PLTSEG						
NTSFPT	-	PLIST	PARSE	FNDARG	BLKDAT				
NTSK	-	PRESCN							
NTSKMX	-	PARSE	BLKDAT						
NTSKTB	-	TSKXQT	RESTR	PRESCN	POSTPR	POSTIP	PARSE	BLKDAT	
NTSYMB	-	SCAN	PREPAR	POSTPR	POSTIP	PLIST	PARSE	LITSCH	GETGEO
		GETARG	GEODRV	FNDARG	DMPDRV	BLKDAT			
NTTASK	-	PREPAR	BLKDAT						
NTYPE	-	PRTGTD							
NU	-	PATCH							
NUMARG	-	ZZXDUM	TSKXQT	PLTDRV	EFDGEO	DMPDRV	BLKDAT		
NUMBLK	-	WYRDRV	PUTSEG	GETSEG					
NUMCHK	-	WRTCHK	RESTR	BLKDAT					
NUMCHR	-	SCAN							
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCON	-	JCTION							
NUMCPF	-	RESTR							
NUMCY	-	PRTGTD	CYLNDR						
NUMCYL	-	PUTSEG	PRTGTD	GEODRV	BLKDAT				
NUMDEC	-	SCAN							
NUMDEF	-	WYRDRV							
NUMEC	-	ENDCAP							
NUMECP	-	PUTSEG	PRTGTD	GEODRV	BLKDAT				
NUMELM	-	WYRDRV							

AD-A137 510

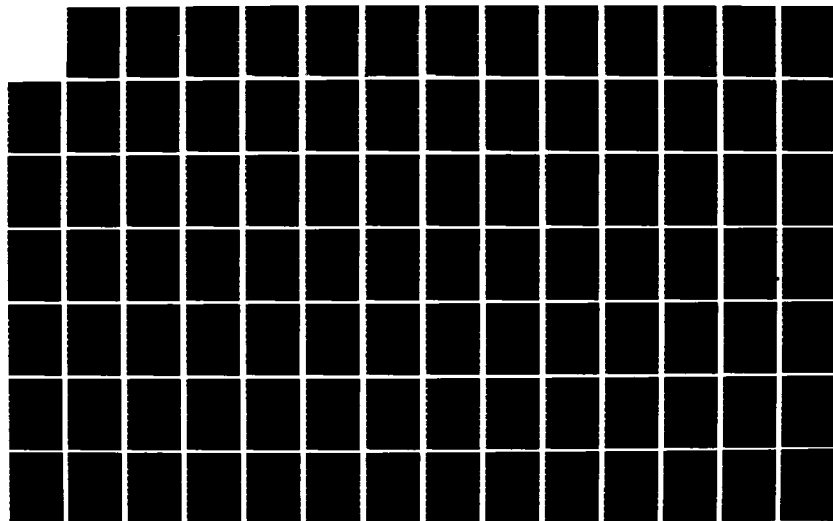
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

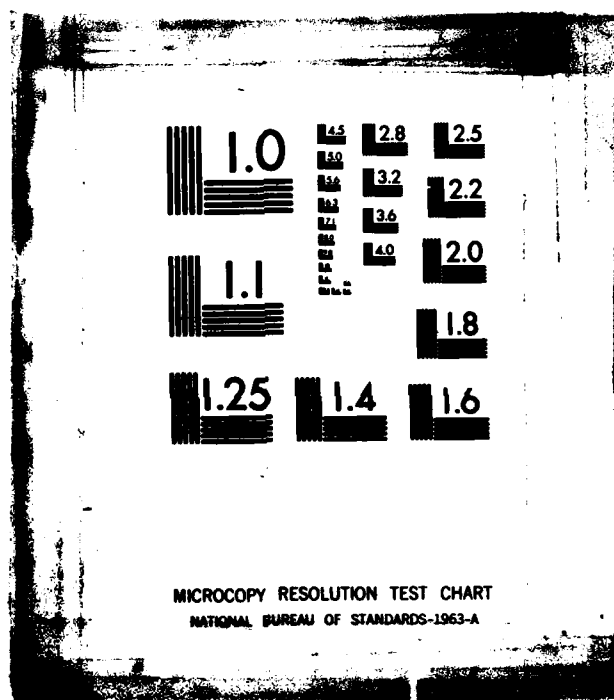
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INPUT Module

I N D E X

***** SUPER INDEX *****

NUMFLD -	SCAN								
NUMFMS -	WYDRV								
NUMGT0 -	WYDRV	SUBPAT	PUTSEG	GEODRV	BUBBLE	BLKDAT			
NUMJCT -	LNKJCT								
NUMLFT -	RDEFIL								
NUMNEG -	JCTION								
NUMPL -	PRGT0	PLTSEG	PLATE						
NUMPLT -	PUTSEG	PRGT0	PLTSEG	GEODRV	BLKDAT				
NUMPOS -	JCTION								
NUMPTS -	WYDRV	PUTPNT	GEODRV	BLKDAT					
NUMREC -	SCAN	RWFILS	RESTR						
NUMREN -	WYDRV								
NUMROW -	PUTSYM	GETSYM	FNDREC						
NUMSB -	STATOT	STATIN	ASSIGN						
NUMSEG -	WYDRV	SUBPAT	PUTSEG	PRGT0	PLTSEG	PLATE	LNKGT0	GETGEO	
	GEODRV	BUBBLE	BLKDAT						
NUMSUB -	ZIXDUM	WYDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	TRCEBK	SYSRTN	
	SYSCHK	SYNUP0	SYNSCH	SYMLIT	SYNDEF	SUBPAT	STATOT	STATIN	
	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS	ROTATE	
	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKVV	PRGT0	PRESCN	
	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE	PATCH	
	PARSE	PAGPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGT0	LITSCH	
	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT	GETKVV	
	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT	FABLO2	
	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CNVGTD	BUBBLE	
	ASSIGN								
NUMSYN -	GETARG								
NUMTSK -	TSKXQT	OPNFIL							
NUMVIP -	PRESCN	BLKDAT							
NUMVP -	SUBPAT	PLTDRV							
NUMWRD -	WYDRV	SYNSCH	SYMLIT	SYNDEF	PLIST	PARSE	LITSCH	FNDARG	
NVAL -	WYDRV	TSKXQT	SYNSCH	SYMLIT	SCAN	RWFILS	RESTR	PUTKVV	
	PREPAR	POSTPR	POSTIP	PLIST	PLATE	PATCH	PARSE	MAIN	
	LITSCH	INPDRV	GETKVV	GETKWD	GEODRV	FNDARG	FABLO2	ENDCAP	
	EFDGEO	DMPDRV	CYLNDR	BLKDAT					
NVALMX -	SCAN	PREPAR	PLIST	INPDRV	GETKWD	BLKDAT			
NV -	CONVRT								
NUMSIZ -	CONVRT	BLKDAT							
NUMRE -	WYDRV	SUBPAT	PUTSEG	PRGT0	PLTSEG	PLTDRV	LNKJCT	LNKGT0	
	JCTION	GETGEO	GEODRV	CNVGTD	BUBBLE	BLKDAT			
NUMRD -	CONVRT								
NUMRDS -	WRTFIL	RDEFIL							
NX -	SCALE3	SCALE2	PLTDRV						
NXINT -	PAGPLT								
NXT -	PLTDRV	MAIN							
NXTARG -	POSTIP	DMPDRV							
NXTBLK -	SUBPAT	BUBBLE							
NXTCHG -	SCAN								
NXTPT -	WYDRV								
NXTS -	PLTDRV								

INPUT Module

I N D E X

***** SUPER INDEX *****

NXTSEG -	WYDRV								
NXTSYN -	SYNDEF	BLKDAT							
NXTTMP -	MAIN								
NXTISK -	TSKXQT								
NXTURD -	CONVRT								
NXVAL -	PAGPLT								
NY -	PLTDRV								
NYINT -	PAGPLT								
NYRSYN -	WYDRV	GEODRV							
NYV -	PAGPLT								
NYVAL -	PAGPLT								
N0 -	GETSYM								
N1 -	PUTSYM	POSTPR	PLATE	FNDARG					
N2 -	PUTSYM	POSTPR	PLATE	MAIN	ENDCAP	CYLNR			
N3 -	POSTPR								
N4 -	POSTPR								
N5 -	POSTPR								
OPNFIL -	WRTCHK	SYNDEF	SUBPAT	STATFN	RWFILS	PUTSYM	GEODRV	BUBBLE	
P -	PLTDRV								
PAGPLT -	PLTDRV								
PAREA -	GEODRV								
PARSE -	INPDRV								
PARTB -	RWCONS								
PATCH -	WYDRV								
PCNT -	STATFN								
PHI -	ROTATE	PATCH	GEODRV	ENDCAP	CYLNR				
PHID -	PRTGTD								
PHIR -	LNKGTB	GTDCS							
PHISV -	ROTATE								
PHI1 -	ENDCAP								
PLATE -	WYDRV								
PLIST -	FNDARG								
PLTDRV -	TSKXQT								
PLTSEG -	CHVGTB								
POSTIP -	RESTR	INPDRV							
POSTPR -	PARSE								
PREPAR -	PARSE								
PRESCH -	INPDRV								
PRTGTD -	GEODRV								
PSI -	ROTATE								
PSISV -	ROTATE								
PTINE -	TICKEK	STATOT	STATIN						
PTTDL -	WYDRV	PUTPNT	JCTION	GETPNT	GEODRV	BUBBLE	BLKDAT		
PUTKUV -	WYDRV								
PUTPNT -	WYDRV	LNKGTB	ENDCAP	CYLNR					
PUTSEG -	WYDRV	PLATE	PATCH	ENDCAP	CYLNR				
PUTSYM -	WRTCHK	SUBPAT	RWFILS	RESTR	PUTSEG	GETSEG	GEODRV	INPDRV	
R -	WYDRV	PUTSEG	PLTDRV	INPDRV					
RAD -	WYDRV	GEODRV	BLKDAT						
RADII -	GEODRV								

INPUT Module

I N D E X

***** SUPER INDEX *****

RD	-	PLTSEG							
RDEFIL	-	SUBPAT	RWFILS	RVCONS	RESTRY	PUTSYM	NOVFIL	GETSYM	GEODRV
		BUBBLE							
RDUM	-	WYDRV	PATCH						
READ	-	RVCONS	RDEFIL	LUSTAT					
REFN	-	PUTKVV	GETKVV	BLKDAT					
REFLCT	-	WYDRV							
REFLEC	-	WYDRV							
REFV	-	PUTKVV	GETKVV	BLKDAT					
RENUM	-	WYDRV							
RESTRY	-	INPDV							
RETURN	-	ZZXDM	WYDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRNLAT	TRCEBK
		TICNEK	SYSRTN	SYSCNK	SYMUPD	SYMSCH	SYNLIT	SYMDEF	SUBPAT
		STATOT	STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS
		RVCONS	ROTATE	RESTRY	REFLCT	RDEFIL	PUTSYM	PUTSEG	PUTPNT
		PUTKVV	PRIGTD	PRESCH	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	NOVFIL	LUSTAT
		LNKJCT	LNKGTB	LITSCH	JCTION	INPDV	IBITCK	GTDCS	GETSYM
		GETSEG	GETPNT	GETKVV	GETKVB	GETGEO	GETARG	GEODRV	FNDREC
		FNDARG	FLTPLT	FABLO2	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLDR
		COORDS	CONVRT	CNVGTB	CLSFIL	BUBBLE	ASSIGN		
RH	-	SUBPAT	GEODRV						
RHO	-	GTDCS	GEODRV						
RHOB2	-	GTDCS							
RI	-	JCTION							
RITEMS	-	STATFN							
RJ	-	JCTION							
RMIN	-	JCTION							
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
ROTAT	-	WYDRV							
ROTATE	-	WYDRV	PATCH	GTDCS	COORDS				
ROX	-	GTDCS	COORDS						
ROY	-	GTDCS	COORDS						
ROZ	-	GTDCS	COORDS						
RP	-	PLTSEG							
RSD	-	JCTION							
RESTART	-	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCNK	SYMDEF	SUBPAT
		STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	PRESCH	OPNFIL	MAIN
		INPDV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
RESTRYA	-	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCNK	SYMDEF	SUBPAT
		STATFN	RESTRY	RDEFIL	PUTSYM	PUTKVV	PRESCH	OPNFIL	MAIN
		INPDV	GETSYM	GETKVV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
RSUMS	-	STATOT	STATIN	STATFN	RVCONS	BLKDAT			
RTENS	-	STATOT	STATIN	BLKDAT					
RH	-	JCTION							
RHCONS	-	WRTCHK	RESTRY						
RWFILS	-	WRTCHK	RESTRY						
RX	-	ROTATE	GTDCS	COORDS					
RXY	-	GEODRV							

INPUT Module

I N D E X

***** SUPER INDEX *****

RY	-	ROTATE	GTDCS	COORDS					
RZ	-	ROTATE	GTDCS	COORDS					
S	-	MYRDRV	PATCH						
SAVDAT	-	BUBBLE							
SCALE	-	MYRDRV	PLATE	PATCH	LNKGTD	GEODRV	CYLNR	BLKDAT	
SCALE3	-	MYRDRV	BLKDAT						
SCALE2	-	PAGPLT							
SCALE3	-	PAGPLT							
SCAN	-	MYRDRV	INPDV						
SCNPR	-	RUCONS							
SEGL	-	GEODRV							
SEGS	-	PLTDRV							
SEGTOL	-	MYRDRV	WRTCHK	TSKXQT	SUBPAT	RWFILS	RESTR	PUTSEG	PUTPNT
		PRGTG	PLTSEG	PLTDRV	PLATE	PATCH	LNKJCT	LNKGTD	JCTION
		GETSEG	GETGEO	GEODRV	ENDCAP	CYLNR	CHVGTD	BUBBLE	BLKDAT
		RUCONS							
SGMNT	-	STATFN	MAIN						
SMELL	-	SUBPAT							
SIDE	-	PUTKUV	BLKDAT						
SIGNA	-	ROTATE							
SIN	-	GEODRV							
SINALP	-	GEODRV							
SINDET	-	RUCONS							
SMSTR	-	MYRDRV	SUBPAT	PUTSEG	PUTPNT	PRGTG	PLTSEG	PLTDRV	PLATE
SP	-	PATCH	LNKJCT	LNKGTD	JCTION	GETSEG	GEODRV	ENDCAP	CYLNR
SP	-	CHVGTD	BUBBLE	BLKDAT					
SP	-	ROTATE	PATCH						
SP	-	SUBPAT	PLTSEG	PLTDRV	GTDCS	GEODRV	FLTPLT		
SP	-	WRTCHK							
SS	-	ROTATE							
ST	-	ROTATE	PATCH	GTDCS					
STATFN	-	MAIN	ERROR						
STATN	-	ZZXDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK	
		SYNUPD	SYNLCIT	SYNDEF	SUBPAT	SCAN	SCALE3	SCALE2	
		RWFILS	RUCONS	ROTATE	RDEFIL	PUTSYN	PUTSEG	PUTPNT	
		PUTKUV	PRGTG	PRESCN	POSTPR	POSTIP	PLTSEG	PLTDRV	
		PLIST	PLATE	PATCH	PARSE	OPNFIL	MOVFIL	LNKJCT	
		LNKGTD	LITSCH	JCTION	INPDV	IBITCK	GETSYN	GETSEG	
		GETPNT	GETKUV	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	
		FLTPLT	FADLO2	ERROR	ENDCAP	EPGEO	CYLNR	COORDS	
		CHVGTD	BUBBLE						
STATCT	-	ZZXDRV	WRTFIL	WRTCHK	TSKXQT	TRNLAT	SYSRTN	SYSCHK	
		SYNUPD	SYNLCIT	SYNDEF	SUBPAT	SCAN	SCALE3	SCALE2	
		RWFILS	RUCONS	ROTATE	RDEFIL	PUTSYN	PUTSEG	PUTPNT	
		PUTKUV	PRGTG	PRESCN	POSTPR	POSTIP	PLTSEG	PLTDRV	
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	LNKJCT	
		LNKGTD	LITSCH	JCTION	INPDV	IBITCK	GETSYN	GETSEG	
		GETPNT	GETKUV	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	
		FLTPLT	FADLO2	ERROR	ENDCAP	EPGEO	CYLNR	COORDS	
		CHVGTD	BUBBLE						

INPUT Module

I N D E X

***** SUPER INDEX *****

STOP	-	WRTFIL	WLKBC	TSKXGT	SYSCHK	SYMUPO	SYHDEF	RWFILS	RESTR
		RDEFIL	PUTSYM	PUTPNT	PUTKUV	PRESCN	PLTDRV	OPNFIL	MOVFIL
		MAIN	GETSYM	GETKUV	GETARG	FNDREC	DMPDRV	COORDS	CNVGTD
SUBOPR	-	DMPDRV							
SUBPAT	-	GEODRV							
SYHDEF	-	SUBPAT	PUTSYM	GEODRV	DMPDRV				
SYMLIT	-	PARSE	FNDARG						
SYMSCH	-	SYMLIT	PLIST	FNDARG					
SYMUPO	-	TSKXGT	SUBPAT	PUTSEG	GEODRV				
SYSCHK	-	TSKXGT							
SYSFL	-	RWCOMS							
SYSLS	-	WRTFIL	WRTCHK	WLKBC	TSKXGT	TRCEBK	SYSCHK	SYHDEF	SUBPAT
		STATFN	RESTR	RDEFIL	PUTSYM	PUTKUV	PRESCN	OPNFIL	MAIN
		INPDRV	GETSYM	GETKUV	GEODRV	ERROR	BUBBLE	BLKDAT	ASSIGN
SYSRTH	-	MAIN							
T	-	WRTCHK	TICKEK						
TAGS	-	PLTDRV							
TEMP	-	WRTCHK	SYHDEF	RWFILS	RWCOMS	RESTR	PUTSYM	PLTDRV	MOVFIL
		MAIN	GEODRV	DMPDRV	BUBBLE	BLKDAT			
THETA	-	ROTATE	PATCH	GEODRV	ENDCAP	CYLNDR			
THETAD	-	PRGTG							
THETAR	-	LNKGT	GTDCS						
THETA1	-	ENDCAP							
THTSV	-	ROTATE							
TICKEK	-	WRTCHK	TSKXGT	SYSCHK					
TINCHK	-	SYSCHK							
TIME	-	SYSRTH	MAIN						
TININ	-	STATIN							
TINOUT	-	STATOT							
TINTGO	-	SYSCHK	PUTKUV	GETKUV	BLKDAT				
VLAST	-	TICKEK	SYSCHK						
TINPNT	-	PUTSYM	GETSYM						
TINM	-	TSKXGT	SYSCHK						
TOTAL	-	STATFN							
TPCEPI	-	BLKDAT							
TRACE	-	MAIN							
TRACST	-	ZZXDRV	WYDRV	WRTFIL	WRTCHK	WLKBC	TSKXGT	TRNLAT	TRCEBK
		SYSRTH	SYSCHK	SYMUPO	SYMSCH	SYMLIT	SYHDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RWCOMS
		ROTATE	RESTR	RDEFIL	PUTSYM	PUTSEG	PUTPNT	PUTKUV	PRGTG
		PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PASPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGT
		LITSCH	JCTION	INPDRV	IBITCK	GTDCS	GETSYM	GETSEG	GETPNT
		GETKUV	GETKWD	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLOZ	ERROR	ENDCAP	EFBGEO	DMPDRV	CYLNDR	COORDS	CONVRT
		CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
TRANLT	-	WYDRV							
TRCEBK	-	WLKBC	ERROR						
TRNLAT	-	WYDRV	COORDS						
VS	-	TICKEK							

INPUT Module

I N D E X

***** SUPER INDEX *****

TSKXOT	-	MAIN							
TSUNS	-	BLKDAT							
TTIMS	-	BLKDAT							
TNOPI	-	PUTKUV	PLTDRV	BLKDAT					
T1X	-	SUBPAT	GEODRV						
T1Y	-	SUBPAT	GEODRV						
T1Z	-	SUBPAT	GEODRV						
T2X	-	SUBPAT	GEODRV						
T2Y	-	SUBPAT	GEODRV						
T2Z	-	SUBPAT	GEODRV						
UL	-	GEODRV							
UPDBLK	-	MYRDRV	WRTCHK	TSKXOT	SUBPAT	RWFILS	RESTRY	PUTSEG	PUTPNT
		PRTGTD	PLYSEG	PLTDRV	PLATE	PATCH	LNKJCT	LNKGTB	JCTION
		GETSEG	GETGEO	GEODRV	ENDCAP	CYLNR	CNVGTD	BUBBLE	BLKDAT
V	-	FLTPLT							
VAL	-	MYRDRV	TSKXOT	SYMSCH	SYMLIT	SCAN	RWFILS	RESTRY	PUTKUV
		PREPAR	POSTPR	POSTIP	PLIST	PLATE	PATCH	PARSE	MAIN
		LITSCH	INPDV	GETKUV	GETKND	GEODRV	FNDARG	FABLOZ	ENDCAP
		EFDGEO	DMPDRV	CYLNR	BLKDAT				
VALUKV	-	PUTKUV	GETKUV						
VINT	-	SCALE3	SCALE2						
VN	-	FLTPLT							
VN	-	FLTPLT							
VNN	-	FLTPLT							
NAVLEN	-	PUTKUV							
WAYNUM	-	PUTKUV							
WLKDCX	-	ZZXDUM	MYRDRV	WRTFIL	WRTCHK	TSKXOT	TRNLAT	SYSRTN	SYSCHK
		SYNUPD	SYMSCH	SYMLIT	SYNDEF	SUBPAT	SCAN	SCALE3	SCALE2
		RWFILS	RVCONS	ROTATE	RESTRY	RDEFIL	PUTSYN	PUTSEG	PUTPNT
		PUTKUV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV
		PLIST	PLATE	PATCH	PARSE	PAGPLT	OPNFIL	NOVFIL	LNKJCT
		LNKGTB	LITSCH	JCTION	INPDV	IDITCK	GTDCS	GETSYN	GETSEG
		GETPNT	GETKUV	GETKND	GETGEO	GETARG	GEODRV	FNDREC	FNDARG
		FLTPLT	FABLOZ	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS
		CNVGTD	BUBBLE						
WORDS	-	ZZXDUM	MYRDRV	WRTFIL	WRTCHK	WLKDCX	TSKXOT	TRNLAT	TRCEBK
		SYSRTN	SYSCHK	SYNUPD	SYMSCH	SYMLIT	SYNDEF	SUBPAT	STATOT
		STATIN	STATFN	SHELL	SCAN	SCALE3	SCALE2	RWFILS	RVCONS
		ROTATE	RESTRY	RDEFIL	PUTSYN	PUTSEG	PUTPNT	PUTKUV	PRTGTD
		PRESCN	PREPAR	POSTPR	POSTIP	PLTSEG	PLTDRV	PLIST	PLATE
		PATCH	PARSE	PAGPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGTB
		LITSCH	JCTION	INPDV	IDITCK	GTDCS	GETSYN	GETSEG	GETPNT
		GETKUV	GETKND	GETGEO	GETARG	GEODRV	FNDREC	FNDARG	FLTPLT
		FABLOZ	ERROR	ENDCAP	EFDGEO	DMPDRV	CYLNR	COORDS	CONVRT
		CNVGTD	CLSFIL	BUBBLE	BLKDAT	ASSIGN			
WRITE	-	ZZXDUM	MYRDRV	WRTFIL	WRTCHK	WLKDCX	TSKXOT	TRCEBK	SYSCHK
		SYNUPD	SYNDEF	SUBPAT	STATOT	STATIN	STATFN	SCAN	SCALE3
		SCALE2	RWFILS	RVCONS	RESTRY	RDEFIL	PUTSYN	PUTSEG	PUTPNT
		PUTKUV	PRTGTD	PRESCN	PREPAR	POSTPR	POSTIP	PLTDRV	PLATE
		PATCH	PAGPLT	OPNFIL	NOVFIL	MAIN	LNKJCT	LNKGTB	JCTION

INPUT Module

I N D E X

***** SUPER INDEX *****

		INPDRV	GTDCS	GETSYM	GETSEG	GETPNT	GETKWV	GETARG	GEODRV
		FNDREC	FABLO2	ENDCAP	EFDGEO	DMPDRV	CYLNDR	COORDS	CNVGTD
		BUBBLE	ASSIGN						
WRTCHK	-	SYSCHK	STATFN	ERROR					
WRTFIL	-	WRTCHK	SUBPAT	RVFILS	RVCOMS	PUTSYM	GEODRV	BUBBLE	
WYDRV	-	GEODRV							
Y	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLTSEG	PLTDRV	PLATE	PAGPLT
		FLTPLT	COORDS						
XC	-	GEODRV	CNVGTD						
XCP	-	JCTION							
XCPA	-	PATCH	GEODRV						
XCPJ	-	JCTION							
XD	-	GTDCS							
XMAX	-	SCALE3	SCALE2	PAGPLT					
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMI	-	JCTION							
XMIN	-	SCALE3	SCALE2	PAGPLT					
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XNJ	-	JCTION							
XNW	-	JCTION							
XN	-	WYDRV	GEODRV	CNVGTD					
XNPA	-	SUBPAT	PATCH	GEODRV					
XP	-	WYDRV	PUTPNT	PLTSEG	PATCH	PAGPLT	GEODRV	CNVGTD	
XPC	-	SUBPAT							
XPI	-	JCTION							
XPJ	-	JCTION							
XPU	-	JCTION							
XQ	-	WYDRV							
XS	-	PLTSEG							
XSUBPA	-	SUBPAT							
XT	-	PLTSEG							
XTRL	-	LNKGTD	GTDCS	CYLNDR					
XU	-	GEODRV							
XVAL	-	PAGPLT							
XWORDS	-	WRTFIL	RDEFIL						
XX	-	PLATE							
XX1	-	PUTSEG							
X1	-	WYDRV	ROTATE	PUTSEG	GETPNT				
X12	-	PATCH							
X13	-	PATCH							
X2	-	WYDRV	PUTSEG	PATCH	GETPNT				
X23	-	WYDRV							
X3	-	WYDRV	PUTSEG						
Y	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLTDRV	PLATE	PAGPLT	FLTPLT
		COORDS							
YC	-	GEODRV	CNVGTD						
YCP	-	JCTION							
YCPA	-	PATCH	GEODRV						

INPUT Module

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***** SUPER INDEX *****

Variable	Value	Variable	Value	Variable	Value	Variable	Value	Variable	Value
YCPJ	-	JCTION							
YD	-	GTDCS							
YMAX	-	PAGPLT							
YMAXP	-	PAGPLT							
YMI	-	JCTION							
YMIN	-	PAGPLT							
YMINP	-	PAGPLT							
YMJ	-	JCTION							
YMU	-	JCTION							
YN	-	WYDRV	GEODRV	CNVGTD					
YNPA	-	SUBPAT	PATCH	GEODRV					
YP	-	WYDRV	PUTPNT	PLTSEG	PATCH	PAGPLT	GEODRV	CNVGTD	
YPC	-	SUBPAT							
YPI	-	JCTION							
YPJ	-	JCTION							
YPU	-	JCTION							
YQ	-	WYDRV							
YS	-	PLTSEG							
YSSTAT	-	TSKXQT							
YSUBPA	-	SUBPAT							
YTRL	-	LNKGTB	GTDCS	CYLNR					
YU	-	GEODRV							
YVAL	-	PAGPLT							
YV	-	PLATE							
Y1	-	WYDRV	ROTATE	PUTSEG	GETPNT				
Y12	-	PATCH							
Y13	-	PATCH							
Y2	-	WYDRV	PUTSEG	PATCH	GETPNT				
Y2S	-	WYDRV							
Y3	-	WYDRV	PUTSEG						
Z	-	WYDRV	TRNLAT	ROTATE	REFLCT	PLATE	FLTPLT	COORDS	
ZC	-	GEODRV	CNVGTD						
ZCP	-	JCTION							
ZCPA	-	PATCH	GEODRV						
ZCPJ	-	JCTION							
ZD	-	GTDCS							
ZERO	-	WYDRV	SYSCHK	SUBPAT	PUTKWV	PLTSEG	PAGPLT	JCTION	GTDCS
		GEODRV	BLKDAT						
ZEROSQ	-	JCTION							
ZLOC	-	LNKGTB							
ZMI	-	JCTION							
ZMJ	-	JCTION							
ZMU	-	JCTION							
ZN	-	WYDRV	GEODRV	CNVGTD					
ZNPA	-	SUBPAT	PATCH	GEODRV					
ZP	-	WYDRV	PUTPNT	PLTSEG	PATCH	GEODRV	CNVGTD		
ZPC	-	SUBPAT							
ZPI	-	JCTION							
ZPJ	-	JCTION							
ZPU	-	JCTION							

INPUT Module

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***** SUPER INDEX *****

Z0	-	WVRDRV			
ZRAT1	-	PUTKVV	GETKVV	BLKDAT	
ZS	-	PLYSEG			
ZTRL	-	LNKGT0	GTDCS	CYLNDR	
ZU	-	GEODRV			
ZZ	-	PLATE			
ZZXBUM	-	TSKXQT	DNPDORV		
ZZ3	-	PUTSEG			
Z1	-	WVRDRV	ROTATE	PUTSEG	GETPNT
Z12	-	PATCH			
Z13	-	PATCH			
Z2	-	WVRDRV	PUTSEG	PATCH	GETPNT
Z25	-	WVRDRV			
Z3	-	WVRDRV	PUTSEG		

3. MOM Module

I N D E X

***** SUPER INDEX *****

SYMBOL	-	*****	ROUTINES IN WHICH THE SYMBOL IS USED							*****
A	-	SOLVOC	SOLVIC	SOLDRV	SCALE3	SCALE2	FARFLD	DECOMP	BMIRHS	
		BACSUB								
ABS	-	ZIJDRV	SPUDRV	SOLDRV	SCALE3	SCALE2	ROMBNT	PUTKUV	PRTSYM	
		PAGPLT	LODDRV	GETGEO	FLDDRV	FARFLD	EXCDRV	DECOMP	CNVST	
ADDOPR	-	DMPDRV								
ADDBG	-	RVCOMS								
AIJ	-	NERFLD	FARFLD							
AIMAG	-	ZIJSET	SPUDRV	SOLDRV	LODDRV	GNDREF	FLDDRV	CABC		
AINI	-	PAGPLT								
AIR	-	NERFLD	FARFLD							
AL	-	SCALE3	SCALE2							
ALOG	-	SOLDRV	ROMBNT							
ALOG10	-	SCALE3	SCALE2	PAGPLT						
AMAX1	-	PAGPLT	DECOMP							
AMIN1	-	PAGPLT	DECOMP							
AMPZJ	-	RVCOMS								
ANGLE	-	PRTSYM								
ANUMK	-	SEJCON	NTRPLT	CABC						
ANUML	-	SEJCON	NTRPLT	CABC						
AREA	-	WYRPAT	UNHFLD	UNEFLD	SEJCON					
AREASV	-	WYRPAT								
ARG	-	SMATRX	NERFLD	FARFLD						
ARGCH	-	RVCOMS								
ARGI	-	SPUDRV								
ARGR	-	SPUDRV								
ASSIGN	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	URTFIL	URCHK	UNHFLD	
		UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPO	SYNMOD	
		SYNDEF	STARTUP	SPUDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV	
		SET	SEJCON	SCALE3	SCALE2	RVFILS	RVCOMS	ROMBNT	REBLCK	
		RDEFIL	PUTSYM	PUTSEG	PUTKUV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	
		NTRPLU	NTRPLT	NERFLD	NOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	
		JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKUV	GETKUD	GETGEO	
		GETARG	FNOREC	FLDDRV	FARFLD	FABLO4	EXCDRV	EFGNAT	DMPDRV	
		DECOMP	CONJUG	ENVAMP	CABC	BMIRHS	BANDIT	BACSUB		
ATAN2	-	SOLDRV	PRTSYM	LODDRV	EXCDRV					
AX	-	CABC								
AG	-	ZIJSET								
AT	-	ZIJSET								
B	-	ZIJSET	TNEFLD	SEJCON	SCALE3	SCALE2	NERFLD	FARFLD		
BACSUB	-	SOLDRV								
BAND	-	SOLVOC	SOLVIC							
BANDED	-	DECOMP								
BANDIT	-	TSKXQT								
BCKSUB	-	SOLDRV								
BCE	-	SOLDRV								
BEI	-	ZINT								
BER	-	ZINT								
BII	-	NERFLD	FARFLD							

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MOM Module

I N D E X

***** SUPER INDEX *****

BIR	-	NERFLD	FARFLD						
BK	-	TNEFLD	ROMBNT						
BMAG	-	SOLDRV							
BMIRMS	-	SOLDRV							
BNDMAG	-	BANDIT							
BNDMAT	-	DECOMP							
BOO	-	FARFLD							
BOT	-	FARFLD							
BR1	-	ZINT							
BR2	-	ZINT							
BUBUFR	-	DECOMP							
BUI	-	DECOMP							
BUR	-	DECOMP							
BX	-	CABC							
C	-	FARFLD	DMPDRV						
CABC	-	FLDDRV							
CABI	-	ZIJSET	MYRPAT	SEJCON	NTRPLU				
CABJ	-	ZIJSET	SEJCON	NTRPLT	NERFLD	GNDREF			
CAPS	-	LODDRV							
CCX	-	FARFLD							
CCY	-	FARFLD							
CC2	-	FARFLD							
CC2	-	FLDDRV							
CC3	-	FLDDRV							
CDWK	-	TNNFLD							
CDP	-	FARFLD							
CELLO	-	CABC							
CEX	-	FLDDRV							
CEXP	-	ZINT							
CEY	-	FLDDRV							
CEZ	-	FLDDRV							
CHKPNT	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK	SYSCHK
		SYNDEF	STRTUP	STATFN	SOLDRV	SETDRV	RUFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
CHKURT	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKCK	TSKXQT	TRCEBK	SYSCHK
		SYNDEF	STRTUP	STATFN	SOLDRV	SETDRV	RUFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
CII	-	NERFLD	FARFLD						
CINT	-	TNEFLD							
CIR	-	NERFLD	FARFLD						
CIX	-	FARFLD							
CIV	-	FARFLD							
CIZ	-	FARFLD							
CK	-	NTRPLT	CABC						
CL	-	NTRPLT	CABC						
CLITE	-	ZIJDRV	PUTKVV	LODDRV	EXCDRV	BLKDAT			
CLL	-	CABC							
CLO	-	CABC							

MOM Module

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***** SUPER INDEX *****

CLSFIL -	ZIJDRV	WRTCHK	TSKXQT	SYNDEF	STATFN	SOLDRV	RWFILS	PUTSYM
	OPNFIL	FLDDRV	ERROR	DMPDRV	DECOMP	CABC		
CLY -	CABC							
CM -	ZIJSET	JNCSUM						
CHAG -	DMPDRV							
CMOTP -	ZINT							
CMPLX -	ZINT	ZIJSET	SPWDRV	SOLDRV	SMATRX	NERFLD	JNCSUM	GNDREF
	FARFLD							
CMPLX1 -	DMPDRV							
CMPLX2 -	DMPDRV							
CM -	ZINT							
CNSLIO -	WRTCHK							
CNVAMP -	ZIJDRV							
CNVTST -	ROMBNT							
CO -	MTGRAM							
COINC -	TNEFLD							
COLHOR -	PUTSYM							
COLMAG -	BANDIT							
COMPLT -	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCX	TSKXQT	TRCEBK	SYSCHK
	SYNDEF	STATUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
	PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
	FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
COMPLX -	SOLVOC	SETDRV	DECOMP					
COMSAV -	SYSCHK							
CONJG -	SOLDRV	LODSYM						
CONJUG -	SOLDRV							
CONS -	NTRPLT							
CONST -	UNEFLD	TNHFLD	FARFLD					
CONST1 -	TNHFLD							
CONST2 -	TNHFLD							
CONVRG -	SOLDRV							
CONVRT -	ZIJSET	ZIJDRV	TSKXQT	SYNUPD	SYNDEF	SOLDRV	SETDRV	RWFILS
	REBLCK	PUTSYM	PUTKVV	PRTSYM	PRTKJ	LUDDRV	LODDRV	GETSYM
	GETKVV	GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV
	BANDIT	BACSUB						
COP1 -	DMPDRV							
COP2 -	DMPDRV							
COS -	ZIJSET	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV	SMATRX	NTRPLT
	MTGRAM	NERFLD	FLDDRV	FARFLD	CABC			
COSARG -	SPWDRV							
COSC2 -	FLDDRV							
COSC3 -	FLDDRV							
COSETA -	SPWDRV							
COSK -	NTRPLT	CABC						
COSL -	NTRPLT	CABC						
COSP -	SPWDRV							
COST -	SPWDRV							
CPART -	PRTSYM							
CPARTE -	PRTSYM							
CPFRUD -	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCX	TSKXQT	TRCEBK	SYSCHK

MOM Module

I N D E X

***** SUPER INDEX *****

		SYNDEF	STRTUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
CRK	-	UNHFLD	NTGRN						
CR1	-	TNEFLD							
CR1K	-	TNNFLD							
CR1R	-	TNEFLD							
CR1RR	-	TNEFLD							
CR2	-	TNEFLD							
CR2K	-	TNNFLD							
CR2R	-	TNEFLD							
CR2RR	-	TNEFLD							
CSQRT	-	ZIJSET	ZIJDRV	SPUDRV	NERFLD	FARFLD			
CST	-	TNEFLD							
CSTM	-	RVCOMS							
CTM	-	ZIJSET	NERFLD						
CUR	-	SOLDRV	CABC						
CURDIP	-	ZIJSET							
CURI	-	SOLDRV							
CURR	-	SOLDRV							
CV	-	SETDRV							
CVAL	-	BLKDAT							
CX	-	CABC	BLKDAT						
CZPK	-	TNNFLD							
C1	-	ZIJSET	FLDDRV						
C2	-	FLDDRV							
C3	-	FLDDRV							
D	-	ZINT	WYRPAT	SYNMOD	SMATRX				
DA	-	WYRPAT							
DATIM	-	SYSRTN							
DATTYP	-	FABLO4							
DBGPRT	-	ZZXBUR	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKCK
		UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNNFLD	TNEFLD	SYSRTN	SYSCHK
		SYNUPD	SYNMOD	SYNDEF	STRTUP	STATOT	STATIN	STATFN	SPUDRV
		SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
		SCALE3	SCALE2	RWFILS	RVCOMS	ROMONT	REBLCK	RDEFIL	PUTSYM
		PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
		NTGRN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
		IBITCK	GNOREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
		FNOREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGHAT	DMPDRV
		DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
		BANDIT	BACSUB	ASSIGN					
DBGSV	-	ZIJDRV							
DC	-	FLDDRV							
DCNR	-	PAGPLT							
DCINV	-	PAGPLT							
DECOMP	-	LUDDRV							
DEL	-	SCALE3	SCALE2						
DFDT	-	RVCOMS							
DFTOR	-	SPUDRV	SOLDRV	LODDRV	FLDDRV	EXCDRV	BLKDAT		

MOM Module

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***** SUPER INDEX *****

DM	-	TNHFLD					
DMK	-	TNHFLD					
DIAGI	-	SOLVOC	SOLVIC	DECOMP			
DIAGM	-	SOLVOC					
DIAGR	-	SOLVOC	SOLVIC	DECOMP			
DIFFSQ	-	SOLDRV					
DIJ	-	ZIJSET	NTRPLT				
DIK	-	ZIJSET	SEJCON	NTRPLT	CABC		
DIL	-	ZIJSET	SEJCON	NTRPLT	CABC		
DIR	-	ZIJSET	NTRPLT				
DIST	-	SCALE3	SCALE2				
DISTL	-	SCALE3					
DIVERG	-	SOLDRV					
DIVOPR	-	DMPDRV					
DJ	-	SYSRTN					
DLINV	-	PAGPLT					
DLYN	-	PAGPLT					
DNAG	-	SOLVIC	DECOMP				
DNAGSV	-	DECOMP					
DNAX	-	DECOMP					
DNIN	-	DECOMP					
DMPDRV	-	TSKXQT					
DS	-	WYRPAT	SYNMOD				
DT	-	ZIJSET	VRTCHK	TSKXQT	TICNEK	SYSCHK	DECOMP
DX	-	PAGPLT					
DXSM	-	SPMDRV					
DY	-	PAGPLT					
DYSM	-	SPMDRV					
DZ	-	ROMBNT					
DZOT	-	ROMBNT					
DZSM	-	SPMDRV					
ECC	-	SPMDRV	EXCDRV				
ECCEN	-	SPMDRV					
EPGMAT	-	FLDDRV					
E1	-	SPMDRV					
E11	-	WYRPAT					
E12	-	WYRPAT					
E13	-	WYRPAT					
E14	-	WYRPAT					
E15	-	WYRPAT					
E16	-	WYRPAT					
E17	-	WYRPAT					
E18	-	WYRPAT					
E19	-	WYRPAT					
EL	-	FARFLD					
EL1	-	ROMBNT					
EL2	-	ROMBNT					
EN	-	SPMDRV					
EN01	-	SEJCON					
EN02	-	SEJCON					

MOM Module

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***** SUPER INDEX *****

EP	-	ZIJSET	ROMBNT						
EPH	-	FLOORV	FARFLD						
EPI	-	ZIJSET							
EPR	-	ZIJSET							
EPRX	-	SPUDRV							
EPRY	-	SPUDRV							
EPRZ	-	SPUDRV							
EPSR	-	ZIJDRV	PUTKUV	GETKUV	BLKDAT				
EPX	-	SPUDRV							
EPY	-	SPUDRV							
EPZ	-	SPUDRV							
ER	-	ZIJSET	SPUDRV						
ERNO	-	NERFLD							
ERIC	-	TNEFLD	NTRPLT	NERFLD					
ERIK	-	TNEFLD	NTRPLT	NERFLD					
ERIS	-	TNEFLD	NTRPLT	NERFLD					
ERRC	-	TNEFLD	NTRPLT	NERFLD					
ERRK	-	TNEFLD	NTRPLT	NERFLD					
ERROR	-	ZIJSET	ZIJDRV	WATFIL	TSKXGT	SYSCHK	SYNUPD	SYNDEF	SOLDRV
		SMATRX	SETDRV	SEJCON	REBLCK	RDEFIL	PUTSYN	PUTKUV	OPNFIL
		NOVFIL	LUODRV	LOODRV	GETSYN	GETKUV	GETARG	FNOREC	FLOORV
		FABLO4	EXCDRV	EFGHAT	DMPDRV	DECOMP	CNVAMP	BANDIT	BACSUB
ERRS	-	TNEFLD	NTRPLT	NERFLD					
ERX	-	SPUDRV							
ERY	-	SPUDRV							
ERZ	-	SPUDRV							
ER1	-	HYRPAT							
ER2	-	HYRPAT							
ER3	-	HYRPAT							
ER4	-	HYRPAT							
ER5	-	HYRPAT							
ER6	-	HYRPAT							
ER7	-	HYRPAT							
ER8	-	HYRPAT							
ER9	-	HYRPAT							
ESX	-	SPUDRV							
ESY	-	SPUDRV							
ESZ	-	SPUDRV							
ET	-	ZIJSET	SYSCHK						
ETA	-	ZIJSET	UNEFLD	TNEFLD	SPUDRV	NERFLD	BLKDAT		
ETAE	-	SPUDRV	EXCDRV						
ETAINV	-	SPUDRV							
ETAK	-	NERFLD							
ETAP	-	SPUDRV							
ETH	-	FLOORV	FARFLD						
ETI	-	ZIJSET	SOLDRV	NTRPLU	NTRPLT	JNCSUM			
ETIC	-	NTRPLT							
ETIK	-	NTRPLT							
ETIME	-	SYSCHK							
ETIS	-	NTRPLT							

MOM Module

I N D E X

***** SUPER INDEX *****

ETI1	-	WYRPAT				
ETI2	-	WYRPAT				
ETR	-	ZIJSET	SOLDRV	NTRPLU	NTRPLT	JNCSUM
ETRC	-	NTRPLT				
ETRK	-	NTRPLT				
ETRS	-	NTRPLT				
ETR1	-	WYRPAT				
ETR2	-	WYRPAT				
EWPI	-	ZIJSET	WYRPAT	NTRPLU		
EWPR	-	ZIJSET	WYRPAT	NTRPLU		
EX	-	NERFLO	FLODRV			
EXA	-	FARFLO				
EXCORV	-	TSKXGT				
EXI	-	SPUDRV				
EXIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXPARG	-	SPUDRV				
EXPORR	-	DMPORV				
EXR	-	SPUDRV				
EXR1	-	SPUDRV				
EXRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EXS	-	SPUDRV	NERFLO			
EXY	-	NERFLO				
EY	-	NERFLO	FLODRV			
EYI	-	SPUDRV				
EYIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYR	-	SPUDRV				
EYR1	-	SPUDRV				
EYRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EYRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EVS	-	SPUDRV	NERFLO			
EZ	-	ZIJSET	NERFLO	FLODRV		
EZ1	-	ZIJSET	SPUDRV			
EZIC	-	TNEFLO	NTRPLT	NERFLO		
EZIK	-	TNEFLO	NTRPLT	NERFLO		
EZIS	-	TNEFLO	NTRPLT	NERFLO		
EZIT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZIT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZP	-	NERFLO				
EZR	-	ZIJSET	SPUDRV			
EZRC	-	TNEFLO	NTRPLT	NERFLO		
EZR1	-	SPUDRV				
EZRK	-	TNEFLO	NTRPLT	NERFLO		
EZRS	-	TNEFLO	NTRPLT	NERFLO		
EZRT1	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZRT2	-	WYRPAT	UNHFLD	UNEFLO	NTRPLU	
EZS	-	SPUDRV	NERFLO			
F	-	ZINT	SPUDRV			

MOM Module

I N D E X

***** SUPER INDEX *****

FABLO4	-	PRTSYN							
FARFLD	-	FLDDRV							
FCON	-	WYRPAT							
FIM1	-	SMATRX							
FIRST	-	IBITCK							
FJ	-	ZINT	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD
		STRUP	SPUDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYN	NTRPLU
		NTRPLT	NERFLD	LODDRV	JNCSUM	GNDREF	GETKVV	FLDDRV	FARFLD
		EXCDRV	CHVAMP	CADC	BLKDAT				
FLDCH	-	RUCONS							
FLDDRV	-	TSKXQT							
FLOAT	-	WYRPAT	SYSRTN	SYSCHK	SOLDRV	SMATRX	SEJCON	SCALE3	SCALE2
		PAGPLT	GETKVV	GETARG	DMPDRV				
FLTARG	-	ZZXDUM	ZIJDRV	ZCDRV	TSKXQT	SYNDEF	SOLDRV	SETDRV	SET
		RWFILS	PRTSYN	PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETGEO
		GETARG	FLDDRV	EXCDRV	DMPDRV	CHVAMP	BLKDAT	BANDIT	BACSUB
FLTINC	-	SYSCHK							
FLTLIT	-	ZZXDUM	ZIJDRV	ZCDRV	WRTCHK	TSKXQT	SYNUPD	SYNDEF	STRUP
		SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYN	PUTSEG	PUTKVV	PRTSYN
		PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETSYN	GETKVV	GETKVD
		GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		CONVRT	CHVAMP	BLKDAT	BANDIT	BACSUB			
FLTHRM	-	SOLDRV							
FLTSYN	-	SYNDEF	PUTSYN	LUDDRV	GETSYN	BLKDAT			
FMT	-	FABLO4							
FMTFLD	-	FABLO4							
FM1	-	SCALE3	SCALE2						
FM2	-	SCALE3	SCALE2						
FM	-	SCALE3	SCALE2						
FNCON	-	SEJCON							
FNDREC	-	PUTSYN	GETSYN						
FNN	-	ROUNDNT							
FNS	-	ROUNDNT							
FRFLD	-	FLDDRV							
FRGNH2	-	ZIJDRV	STRUP	PUTKVV	LODDRV	GETKVV	EXCDRV		
FRQSAV	-	ZIJDRV	LODDRV	EXCDRV					
FRTIM	-	BANDIT							
FSIGN	-	ZIJSET							
FSTCHK	-	WRTCHK							
FX	-	GNDREF							
FX1	-	GNDREF							
FXR	-	GNDREF							
FXY	-	GNDREF							
FY	-	GNDREF							
FY1	-	GNDREF							
FYR	-	GNDREF							
FZ	-	GNDREF							
FZ1	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
FZR	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
FI	-	WYRPAT	CHVTST						

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F2	-	WYRPAT	CNVTST						
G	-	ZINT							
GCON	-	WYRPAT							
GEODT	-	RUCOMS							
GETARG	-	ZIJDRV	TSKXGT	SOLDRV	SETDRV	PRTSYM	LODDR	GETGEO	FLDDR
		EXCDRV							
GETGEO	-	ZIJDRV	TSKXGT	SOLDRV	FLDDR	EXCDRV			
GETKUV	-	DMPDRV							
GETSEG	-	SPUDRV	SOLDRV	SEJCON	PUTSEG	NERFLD	LUDDR	LODDR	GETGEO
		FARFLD	EXCDRV	CNVAMP	CABC				
GETSYM	-	ZIJDRV	WRTCHK	SYNDEF	STRUP	SOLDRV	SETDRV	REBLCK	PUTSYM
		PUTSEG	PRTSYM	LUDDR	LODDR	GETSEG	GETARG	FLDDR	EXCDRV
		EFGMAT	DMPDRV	DECOMP	BANDIT	BACSUB			
GNOREF	-	ZIJSET	NTRPLU	NTRPLT	NERFLO				
GROUND	-	SPUDRV							
GTDDT	-	RUCOMS							
G1	-	WYRPAT							
G11	-	RONONT							
G1R	-	RONONT							
G2	-	WYRPAT							
G21	-	RONONT							
G2R	-	RONONT							
G3	-	WYRPAT							
G31	-	RONONT							
G3R	-	RONONT							
G4	-	WYRPAT							
G41	-	RONONT							
G4R	-	RONONT							
G51	-	RONONT							
G5R	-	RONONT							
HAFLCH	-	CNVAMP							
HCNVRT	-	SPUDRV							
HEADR	-	SOLDRV	PRTSYM						
H1	-	SHELL							
HGRV	-	LODDR							
HPIC	-	TANFLD	NTRPLT						
HPIC	-	TANFLD	NTRPLT						
HPIS	-	TANFLD	NTRPLT						
HPOC	-	TANFLD	NTRPLT						
HPRK	-	TANFLD	NTRPLT						
HPRS	-	TANFLD	NTRPLT						
HSS	-	TANFLD							
HSE	-	SPUDRV							
HXIC	-	NTRPLT							
HXIK	-	NTRPLT							
HXIS	-	NTRPLT							
HXR	-	SPUDRV							
HXRC	-	NTRPLT							
HXRC	-	NTRPLT							
HXRS	-	NTRPLT							

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NYI	-	SPHDRV							
NYIC	-	NTRPLT							
NYIK	-	NTRPLT							
NYIS	-	NTRPLT							
NYR	-	SPHDRV							
NYRC	-	NTRPLT							
NYRK	-	NTRPLT							
NYRS	-	NTRPLT							
NZI	-	SPHDRV							
NZIC	-	NTRPLT							
NZIK	-	NTRPLT							
NZIS	-	NTRPLT							
NZR	-	SPHDRV							
NZRC	-	NTRPLT							
NZRK	-	NTRPLT							
NZRS	-	NTRPLT							
I	-	ZZXDBM	ZIJSET	ZIJDRV	TSKXQT	SYSRTN	SYNMOD	STRUP	STATFN
		SOLVOC	SOLVIC	SOLDRV	SMATRX	SWELL	SET	SCALE3	SCALE2
		RWFILS	RVCOMS	PUTSYM	PUTSEG	PRTSYM	PRTKJ	PAGPLT	NERFLD
		LUDDRV	LODDRV	JNCSUM	IBITCK	GETSYM	GETKWD	GETGEO	FNDREC
		FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	DECOMP	CONVRT	CHVAMP
		CABC	BWIRNS	BLKDAT	BANDIT	BACSUB			
IABS	-	TSKXQT	SEJCON	SEJCON	PAGPLT	OPNFIL	LODSYM	LODDRV	GETARG
		EXCDRV	DMPDRV						
IALPHA	-	PRTSYM							
IALT	-	ZIJSET							
IARG	-	SOLDRV	SETDRV						
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BANDIT	BACSUB	
IBASIS	-	ZIJDRV							
IDIT	-	IBITCK	EXCDRV	DECOMP					
IDITA	-	FLDDRV							
IDITCK	-	SYNDEF	SOLDRV	SETORV	RWFILS	REBLCK	PUTSYM	PRTSYM	LUDDRV
		GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	BANDIT	BACSUB
IDITR	-	DMPDRV							
IDITS	-	ZIJDRV	TSKXQT	SYNDEF	PRTSYM				
IDITI	-	SYNDEF	DMPDRV						
IDIT2	-	DMPDRV							
ISLANK	-	FLDDRV	BLKDAT						
ISLK	-	SOLDRV	SEJCON	NERFLD	LODDRV	GETGEO	FLDDRV	FARFLD	EXCDRV
		CHVAMP							
ISLKK	-	GETGEO							
ISLKL	-	ULKCK							
ISNDP1	-	BANDIT							
IDV	-	PRTSYM							
IC	-	SYSRTN	SYNMOD	SETDRV					
ICALL	-	ROMNT	PRTSYM	FABLO4					
ICASE	-	PUTSEG	FABLO4						
ICC	-	SOLDRV							
ICHAR	-	CONVRT							

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ICHKPT	-	STRTUP							
ICKFIL	-	WRTCHK							
ICKLOP	-	STRTUP							
ICHPLX	-	SETDRV	PRTSYM						
ICMPX	-	SOLDRV							
ICOLA	-	FLDDRV							
ICOLF	-	EFGMAT							
ICOLFF	-	EFGMAT							
ICOLGM	-	EFGMAT							
ICOLGX	-	EFGMAT							
ICOLG1	-	EFGMAT							
ICOLG2	-	EFGMAT							
ICOLMN	-	FLDDRV							
ICOL1	-	FLDDRV							
ICOL2	-	ZIJDRV							
ICON	-	RNCOMS							
ICONMA	-	BLKDAT							
ICONSV	-	RNCOMS							
ICON	-	ZIJSET	SEJCON	NTRPLU	CNVAMP				
ICON1	-	SEJCON							
ICON2	-	SEJCON							
ICORDY	-	FLDDRV							
ICOST	-	FLDDRV							
IC01	-	ZIJSET	SEJCON						
IC02	-	ZIJSET	SEJCON						
ICTYPE	-	FLDDRV							
ICU	-	EXCDRV							
ICYTAG	-	BLKDAT							
IC1	-	SOLVOC	SETDRV						
IC11	-	SETDRV							
IC2	-	SOLVOC	SETDRV						
ID	-	CONVRT							
IDATE	-	SYSRTN							
IDAY	-	MAIN							
IDCSYS	-	BLKDAT							
IDEPIN	-	BLKDAT							
IDFINS	-	BLKDAT							
IDIG	-	BLKDAT							
IDOLAR	-	BLKDAT							
IDP	-	EXCDRV							
IDTYPE	-	LODDRV							
IECTAG	-	BLKDAT							
IEND	-	ZIJSET							
IEND1	-	CNVAMP							
IEND2	-	CNVAMP							
IEOF	-	WRTCHK	STRTUP	RNCOMS					
IEQUAL	-	ONPDRV	BLKDAT						
IERRF	-	ZIJSET	ZIJDRV	WRTFIL	TSKXOT	SYSCHK	SYNUPD	SYNDEF	STRTUP
		SOLDRV	SMATRX	SETDRV	SEJCON	RNFILS	REBLCK	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NOVFIL	LUDDRV	LODDRV	GETSYM	GETKVV	FNOREC

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	FLDDRV	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP	CNVAMP
IF	BLKDAT	BANDIT	BACSUB					
IFILE	EFGMAT							
	ZIJDRV	SYNUPD	RWFILS	PUTSYM	NOVFIL	GETSYM	FNDREC	FLDDRV
	CLSFIL							
IFIX	SYSRTN	STATFN	SOLDRV	PAGPLT	FLDDRV			
IFLDMT	FLDDRV							
IFLE	NOVFIL							
IFLNAM	RMCONS							
IFUD	SOLVOC	BACSUB						
IF1	PUTSYM	EFGMAT						
IF2	PUTSYM							
IGEORT	FLDDRV							
IGEOM	SOLDRV	EXCDRV						
IGF	EFGMAT							
IGFM	EFGMAT							
IGNORE	BLKDAT							
II	SOLVOC	SOLDRV	SET	PRTKJ	PAGPLT	NERFLO	FARFLO	CABC
IJ	ZIJSET	TNEFLD	SYSRTN	SOLVIC	ROMBNT	NTRPLT	NTGRAN	DECOMP
IJMOD	PUTSYM	PRTSYM	GETSYM	FNDREC				
IJSAY	SOLVIC	DECOMP						
IJX	TNEFLD							
IJZLOC	ZIJDRV							
IK	ZIJSET	NTRPLT	DECOMP					
IKV	PRTKJ							
IL	ZIJDRV	DECOMP						
ILEFT	DMPDRV	BLKDAT						
ILIM	EFGMAT	DECOMP	CNVAMP					
ILOAD	ZIJDRV							
ILOC1	EXCDRV							
ILOC2	EXCDRV							
ILOW	EFGMAT							
ILOWER	PUTSYM	LUDDRV	GETSYM	FNDREC	BACSUB			
ILP	DMPDRV							
ILVR	PRTSYM							
ILTM	GETGEO							
IN	SHELL							
INCHK	WRTCHK	STRUP	STATFN	PUTSYM	BLKDAT			
INENUS	DMPDRV	BLKDAT						
INIS	FLDDRV							
INI	PAGPLT	IBITCK						
IN	SOLDRV							
INAME	BLKDAT							
INCALL	FABLO4							
INCHK	TSKXGT	SYSCHK						
INCORE	NERFLO	FLDDRV	FARFLO	DECOMP	CABC			
IND	CONVRT							
INDEX	GETKWD	GETGEO	FLDDRV					
INDEX1	FLDDRV							
INDEX2	FLDDRV							

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INDEX3	-	FLDDRV							
INDEX	-	SOLVIC	SMATRX	SETDRV	SEJCON	LUDDRV	FLDDRV	DECOMP	
INDEXA	-	SOLDRV	LUDDRV	FLDDRV	BACSUB				
INDEXB	-	SOLDRV	LUDDRV	FLDDRV					
INDEXC	-	SOLDRV							
INDEXF	-	EFGMAT							
INDEXG	-	TSKXQT	EFGMAT						
INDEXL	-	BACSUB							
INDEXP	-	SOLDRV							
INDEXP1	-	RUCOMS							
INDEXS	-	EFGMAT							
INDEXU	-	BACSUB							
INDEXWB	-	WLKBC	TRCEBK	RUCOMS	BLKDAT				
INDEXX	-	SOLDRV							
INDEXY	-	SOLDRV							
INEG	-	CNVAMP							
INEM	-	SYNDEF							
INT	-	SOLDRV	PUTKVV	GETARG					
INTARG	-	ZZXDUM	ZIJDRV	ZCDRV	TSKXQT	SYNDEF	SOLDRV	SETDRV	SET
		RWFLS	PRTSYM	PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETGEO
		GETARG	FLDDRV	EXCDRV	DNPDV	CNVAMP	BLKDAT	BANDIT	BACSUB
INTOCD	-	CONVRT							
INTGER	-	PRTSYM							
INTH	-	RUCOMS							
INTSYN	-	SYNDEF	PUTSYM	LUDDRV	GETSYM	BLKDAT			
INTURD	-	CONVRT							
IN1	-	BANDIT							
IN2	-	BANDIT							
INZOND	-	BANDIT							
IOA	-	DECOMP							
IOBL	-	LUDDRV	DECOMP						
IOBU	-	LUDDRV	DECOMP						
IOCKPT	-	WRTCHK	TSKXQT	SOLDRV	RUCOMS	RDEFIL	PUTSYM	DECOMP	BLKDAT
IOFFST	-	EFGMAT							
IOFF1	-	EFGMAT							
IOFILE	-	WRTFIL	WRTCHK	SYNDEF	STRUP	SOLDRV	RUCOMS	RDEFIL	PUTSYM
		OPNFIL	NOVFIL	LUDDRV	GETSYM	ERROR	DECOMP	CLSFIL	BLKDAT
IOFLS	-	RUCOMS							
IOPR	-	DNPDV							
IOORDER	-	SOLVIC	PUTSYM	GETSYM	FNDREC	BACSUB			
IOSAV	-	DECOMP							
IOSCRT	-	PUTSYM							
IOSCR1	-	SYNDEF	SOLDRV	PUTSYM	NERFLD	LUDDRV	FARFLD	CABC	BLKDAT
IOSCR2	-	SYNDEF	SOLDRV	PUTSYM	LUDDRV	BLKDAT			
IOSTOR	-	SYNDEF	STRUP						
IOSYND	-	SYNDEF	BLKDAT						
IOS1	-	LUDDRV	DECOMP						
IOS1SV	-	DECOMP							
IOS2	-	LUDDRV	DECOMP						
IOTASK	-	BLKDAT							

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IP	-	ZIJSET	NTRPLT	LODDRV					
IPAREN	-	OMPDRV							
IPASS	-	ZIJDRV	TSKXQT	SYNDEF	SOLDRV	SETDRV	PRESYM	LUDDRV	LODDRV
		GETARG	FLDDRV	EXCDRV	OMPDRV	BANDIT			
IPATCH	-	ZIJSET	TNNFLO	TNEFLO	NTRPLU	NTRPLT	NTGRAN	NERFLO	GNDREF
IPEND	-	ZIJSET							
IPER	-	BLKDAT							
IPERF	-	ZIJSET	ZIJDRV	SPWDRV	PUTKWV	NERFLO	GNDREF	FARFLO	CNVAMP
IPLOT	-	FLDDRV							
IPLTAG	-	ZIJDRV	PUTSEG	GETSEG	GETGEO	EXCDRV	EFGMAT	BLKDAT	
IPLUS	-	OMPDRV	BLKDAT						
IPOS	-	CNVAMP							
IPR	-	ZIJSET	JNCSUM						
IPSEG	-	ZIJSET							
IPST	-	ZIJSET							
IPTBUF	-	BLKDAT							
IPTS	-	BLKDAT							
IPTTDL	-	BLKDAT							
IPVIT	-	LUDDRV							
IPVR2	-	IBITCK							
IP1	-	PAGPLT							
IP217	-	ZIJSET	SOLDRV	SET	SEJCON	PUTSEG	PRTKJ	LODDRV	GETSEG
		GETGEO	EXCDRV	CNVAMP	BLKDAT				
IR	-	SYNMOD	SOLVOC	SETDRV	PUTSYM	GETSYM	DECOMP		
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREAL	-	SOLDRV	SETDRV						
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECNO	-	PUTSYM							
IRECNV	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	SOLDRV	PUTSYM	LUDDRV	GETSYM				
IREC2	-	SOLDRV	PUTSYM	LUDDRV	GETSYM				
IRIGHT	-	OMPDRV	BLKDAT						
IRON	-	DECOMP							
IRONA	-	FLDDRV							
IRONV1	-	PUTSYM	GETSYM						
IRONV5	-	BANDIT							
IRON1	-	BANDIT							
IRON2	-	FLDDRV							
IRP	-	OMPDRV							
IRP1	-	SETDRV							
IRSAV	-	STARTUP							
IRSTRT	-	STARTUP	PUTSYM						
IR1	-	SETDRV	RWFILS	PUTSYM	GETSYM				
IR2	-	SETDRV	PUTSYM	GETSYM					
IS	-	SYNMOD	PUTSEG	PAGPLT	LODDRV	EXCDRV	CNVAMP		
ISAV2	-	TSKXQT							

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ISAV3	-	TSKXQT							
ISBLNK	-	PAGPLT							
ISCALE	-	BLKDAT							
ISDASH	-	PAGPLT							
ISDOT	-	PAGPLT							
ISEG	-	SOLDRV	PUTSEG	NERFLD	LODDR	GETSEG	GETGEO	FARFLD	BLKDAT
ISEG1	-	LODDR	EXCDRV						
ISEG2	-	LODDR	EXCDRV						
ISELEN	-	ZIJSET							
ISELST	-	ZIJSET							
ISET	-	SET	PRTKJ						
ISETTB	-	SET	PRTKJ	BLKDAT					
ISG	-	PUTSEG							
ISGMNT	-	SEJCON							
ISGTBL	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	STRUP	SPWDRV	SOLDRV	SEJCON
		RWFILS	PUTSEG	NERFLD	LUDDR	LODDR	GETSEG	GETGEO	FLDDR
		FARFLD	EXCDRV	CNVAMP	CABC	BLKDAT			
ISGVRD	-	EXCDRV							
ISHAD	-	ZIJDRV							
ISHADN	-	ZIJSET	ZIJDRV						
ISLASH	-	DMPDRV	BLKDAT						
ISOFF	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	TNEFLD	STRUP	STATFN	SPWDRV
		SOLVOC	SOLDRV	SETDRV	SEJCON	RWFILS	RWCOMS	PUTSYM	PUTSEG
		PRTSYM	NTRPLU	NTRPLT	NERFLD	MAIN	LUDDR	LODSYM	GNDREF
		GETSYM	GETSEG	GETANG	FNDREC	EXCDRV	ERROR	DMPDRV	CONVRT
		CNVAMP	CLSFIL	BLKDAT	BACSUB				
ISOLN	-	PRTSYM							
ISON	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	TSKXQT	TNHFLD	SYSCHK	SYMUPO
		SYNDEF	STRUP	STATOT	STATFN	STATFN	SPWDRV	SOLVOC	SOLVIC
		SOLDRV	SMATRX	SETDRV	SEJCON	RWFILS	RWCOMS	REBLCK	RDEFIL
		PUTSYM	PUTKUV	PRTSYM	OPNFIL	NTRPLU	NTRPLT	NTGRAN	NERFLD
		NOVFIL	MAIN	LUDDR	LODSYM	LODDR	GNDREF	GETSYM	GETKUV
		FNDREC	FLDDR	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP
		CNVAMP	BLKDAT	BANDIT	BACSUB				
ISPLUS	-	PAGPLT							
ISSTAR	-	PAGPLT							
ISSUE	-	MAIN							
ISTAR	-	DMPDRV	BLKDAT						
ISTART	-	ZIJSET	ZIJDRV						
ISTAT	-	SOLDRV	OPNFIL						
ISTOP	-	ZIJDRV	SET						
ISV	-	PUTSYM	GETSYM	FNDREC					
ISVP	-	ZIJSET							
ISVN	-	ZIJSET							
ISV	-	PUTSYM	EXCDRV						
ISYN	-	PAGPLT							
ISYNOL	-	BLKDAT							
ISYNTY	-	PRTSYM							
IT	-	PUTSYM	LODDR	GETSYM					
ITAG	-	PUTSEG	LODDR	GETSEG	GETGEO	EXCDRV			

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ITAGID	-	ZIJDRV	PUTSEG	GETSEG	GETGEO	EXCDRV	EFGMAT	BLKDAT	
ITAG1	-	LODDRV	GETGEO	EXCDRV					
ITAG2	-	LODDRV	EXCDRV						
ITASK	-	TSKXQT							
ITEMP	-	ZIJDRV	WRTCHK	SYMDEF	SPWDRV	SOLDRV	SETDRV	RWFILS	PUTSYM
		PRTSYM	NERFLD	MOVFIL	MAIN	LUDDRV	LODDRV	FLDDRV	FARFLD
		EXCDRV	EFGMAT	DMPDRV	CABC	BLKDAT	BANDIT		
ITEMS	-	STATFN	SHELL						
ITG	-	PUTSEG							
ITIME	-	SYSRTN	MAIN						
ITRAMP	-	PRTSYM							
ITRBT	-	PRTSYM							
ITYP	-	ZIJSET	SEJCON						
ITYPDE	-	BLKDAT							
ITYPE	-	PRTSYM	PAGPLT	FABLO4					
ITYPPL	-	BLKDAT							
ITYPPY	-	BLKDAT							
ITYPTG	-	BLKDAT							
IU	-	FLDDRV							
IUPPER	-	PUTSYM	LUDDRV	GETSYM	FNDREC	BACSUB			
IUPR	-	PRTSYM							
IYS	-	EXCDRV							
IWSAV	-	RWCOMS							
IWRE	-	ZIJSET	NTRPLU	NTRPLT	NERFLD	GNDREF			
IWORDS	-	ZZXDM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKBC
		UMHFLD	UNEFLD	TSKXQT	TRCEBK	TMHFLD	TNEFLD	SYSRTN	SYSCHK
		SYHUPD	SYMMD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV
		SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
		SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
		PUTSEG	PUTKUV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
		NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
		IBITCK	GNDREF	GETSYM	GETSEG	GETKUV	GETKND	GETGEO	GETARG
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
		DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
		BANDIT	BACSUB	ASSIGN					
IURBLK	-	CNVAMP							
IURD	-	IBITCK	FNDREC						
IURD1	-	PUTSYM	GETSYM						
IURTK	-	WRTCHK	PUTSYM						
IU1	-	DECOMP							
IU2	-	DECOMP							
IXCHAM	-	EXCDRV							
IXYPE	-	EXCDRV							
IX1	-	PUTSEG							
IY	-	PAGPLT							
IYRLOC	-	ZIJDRV	GETGEO						
I23	-	PUTSEG							
I1	-	ZIJDRV	WYRPAT	TRCEBK	PAGPLT				
I2	-	WYRPAT	TRCEBK	PAGPLT					
J	-	ZIJSET	ZIJDRV	SYSRTN	SYMMD	STRUP	STATFN	SOLVOC	SOLVIC

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		SNATRX	SHELL	SET	SEJCON	REBLCK	PUTSYM	PUTSEG	PRTSYM
		PRTKJ	PAGPLT	NERFLD	LUDDRV	LODSYM	JNCSUM	GETSYM	GETKWD
		FNDREC	FLDORV	FABLO4	DECOMP	CONJUG	BMIRHS	BANDIT	
JB	-	SOLVOC							
JBIAS1	-	SEJCON	BLKDAT						
JBIAS2	-	SEJCON	BLKDAT						
JBIAS3	-	ZIJSET	SEJCON	BLKDAT					
JB1T	-	IBITCK							
JBLK	-	SEJCON	CABC						
JC	-	SETDRV							
JCBIAS	-	BLKDAT							
JCOL2	-	ZIJDRV							
JCON	-	SEJCON							
JCO1	-	ZIJSET	SEJCON	CABC					
JCO2	-	ZIJSET	SEJCON	CABC					
JC1	-	SOLVOC							
JC2	-	SOLVOC							
JC2M1	-	SOLVOC							
JD16	-	BLKDAT							
JETA	-	FARFLD							
JHOURS	-	SYSRTN							
J1	-	SOLVOC							
JIX	-	ZIJSET	SEJCON	CABC					
JIXK	-	CABC							
JIZ	-	ZIJSET	SEJCON	CABC					
JIZK	-	CABC							
JJ	-	CABC							
JLIM	-	DECOMP							
JLOC	-	CABC							
JLOCP1	-	CABC							
JM	-	JNCSUM	BMIRHS						
JMINIT	-	SYSRTN							
JMJ	-	JNCSUM							
JN	-	SOLVOC							
JNC	-	REBLCK							
JNCN	-	RWCOMS							
JNCSUM	-	ZIJSET							
JOX	-	ZIJSET	SEJCON	CABC					
JOXK	-	CABC							
JOZ	-	ZIJSET	SEJCON	CABC					
JOZK	-	CABC							
JP	-	JNCSUM							
JPJ	-	JNCSUM							
JPR	-	ZIJSET							
JPVT	-	DECOMP							
JP1	-	SOLVOC							
JR	-	SOLVOC							
JREC	-	REBLCK							
JROM	-	DECOMP							
JS	-	ZIJSET							

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JSAV	-	FLDDRV							
JSEG	-	ZIJSET	SOLDRV	SEJCON	LODDRV				
JSG	-	PUTSEG							
JSGMNT	-	SEJCON							
JSHAO	-	ZIJSET							
JSP	-	SOLVIC							
JST	-	SOLVIC							
JTAG	-	EXCDRV							
JTG	-	PUTSEG							
JV	-	SOLVIC							
JVSAV	-	SOLVIC							
JWRD	-	IBITCK							
JX	-	NERFLD	FARFLD						
JY	-	NERFLD	FARFLD						
JZ	-	NERFLD	FARFLD						
J1	-	ZIJSET	DECOMP						
J2	-	ZIJSET							
K	-	ZIJSET	ZIJDRV	SYNMOD	SOLVOC	SOLVIC	SMATRX	SHELL	SET
		PRTKJ	NTRPLU	NTRPLT	NERFLD	LODSYM	FLDDRV	FARFLD	EXCDRV
		DECOMP	CONVRT	CNVAMP	CABC	BMIRHS	BANDIT		
KA	-	SYNMOD							
KALL	-	ZIJSET	ZIJDRV						
KBAND	-	SOLDRV	PUTSYM	GETSYM	FNDREC				
KBBAND	-	SOLDRV	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BANDIT
		BACSUB							
KBBITS	-	BLKDAT							
KBCPLX	-	ZIJDRV	SYNDEF	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM
		LUDDRV	LODDRV	GETSYM	FNDREC	EXCDRV	DMPDRV	DECOMP	BLKDAT
		BANDIT	BACSUB						
KBOPRE	-	PUTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BANDIT		
KBFFLD	-	FLDDRV	BLKDAT						
KBFULL	-	BLKDAT							
KBGEOM	-	TSKXQT	SOLDRV	RWFILS	PRTSYM	FLDDRV	EXCDRV	BLKDAT	
KBINTP	-	BLKDAT							
KBLEFT	-	BLKDAT							
KBLOAD	-	SOLDRV	LODDRV	BLKDAT					
KBLURT	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BACSUB	
KBNFLD	-	FLDDRV	BLKDAT						
KBORDR	-	ZIJDRV	PUTSYM	PRTSYM	GETSYM	FNDREC	BLKDAT	BACSUB	
KBPVIT	-	BLKDAT							
KBREAL	-	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PRTSYM	FLDDRV	EXCDRV	DMPDRV
		DECOMP	BLKDAT						
KBNGL	-	ZIJDRV	BLKDAT						
KBOLN	-	SOLDRV	PRTSYM	EFGMAT	BLKDAT				
KBRCCE	-	EXCDRV	BLKDAT						
KBRYH	-	PRTSYM	BLKDAT						
KBRYH	-	BLKDAT							
KBTEXT	-	PRTSYM	BLKDAT						
KBUPRT	-	PUTSYM	PRTSYM	LUDDRV	GETSYM	FNDREC	BLKDAT	BACSUB	
KBZIMP	-	ZIJDRV	BLKDAT						

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KC	-	ZIJSET							
KCHKPT	-	BLKDAT							
KCODE	-	STRUP							
KCOLG	-	EFGMAT							
KCOLS	-	ZIJDRV							
KDOTJ	-	FARFLD							
KGBIT	-	EXCDRV							
KGEOM	-	RWFILS							
KINPUT	-	BLKDAT							
KIX	-	SPWDRV							
KIXSQ	-	SPWDRV							
KIY	-	SPWDRV							
KIYSQ	-	SPWDRV							
KIZ	-	SPWDRV							
KJFLD	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KJGTD	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KJINT	-	SET	PRTKJ	BLKDAT					
KJMON	-	ZIJDRV	STRUP	SET	PRTKJ	FLDDRV	EXCDRV	EFGMAT	BLKDAT
KK	-	SYNMOD	SMATRX						
KL	-	BMIRHS							
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLM	-	SYNUPD							
KLOOP	-	SMATRX							
KLST	-	PRTKJ							
KN	-	PRTKJ							
KOL	-	SYNUPD	DECOMP						
KOLAST	-	SYNUPD	SYNDEF	STRUP	PUTSYM	LUDDRV	FNDREC	DECOMP	BLKDAT
KOLBIT	-	SYNUPD	SYNDEF	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRTSYM
		LUDDRV	GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLCNT	-	TSKXQT	BLKDAT						
KOLCOB	-	GETARG	DMPDRV	BLKDAT					
KOLCOL	-	ZIJDRV	TSKXQT	SYNUPD	SYNDEF	SOLDRV	SETDRV	RWFILS	PUTSEG
		PRTSYM	LUDDRV	LODDRV	GETGEO	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLFST	-	SYNUPD	SYNDEF	STRUP	PUTSYM	LUDDRV	GETSYM	FNDREC	DECOMP
		BLKDAT	BACSUB						
KOLLBL	-	BLKDAT							
KOLLNK	-	ZIJDRV	SYNUPD	SOLDRV	PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM
		FNDREC	FLDDRV	EXCDRV	BLKDAT	BANDIT	BACSUB		
KOLLOC	-	ZIJDRV	TSKXQT	SYNUPD	SYNDEF	STRUP	RWFILS	PUTSYM	LUDDRV
		GETSYM	FNDREC	FLDDRV	DMPDRV	DECOMP	BLKDAT	BACSUB	
KOLNAM	-	ZIJDRV	TSKXQT	SYNUPD	SYNDEF	SOLDRV	SETDRV	RWFILS	REBLCK
		PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM	GETGEO	GETARG	FNDREC
		FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP	CNVAMP	BLKDAT	BANDIT
		BACSUB							
KOLROW	-	SYNUPD	SYNDEF	SOLDRV	SETDRV	RWFILS	PUTSYM	PRTSYM	LUDDRV
		LODDRV	GETSYM	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		BLKDAT	BANDIT	BACSUB					
KOLTIM	-	TSKXQT	BLKDAT						

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KOLTSK -	TSKXQT	BLKDAT					
KOLVAL -	GETARG	DMPDRV	BLKDAT				
KONT -	ZIJSET						
KONT4 -	ZIJSET						
KOUNT -	TSKXQT						
KOUTPT -	BLKDAT						
KP -	ZIJSET	NTRCLU					
KPR -	ZIJSET						
KP1 -	SOLVOC						
KP2 -	SOLVOC						
KR -	ZIJSET						
KREC -	REBLCK						
KREC1 -	SOLDRV						
KREC2 -	SOLDRV						
KRL -	BMIRHS						
KRSTRT -	BLKDAT						
KRU -	BMIRHS						
KRX -	SPWDRV						
KRXSQ -	SPWDRV						
KRY -	SPWDRV						
KRYSQ -	SPWDRV						
KRZ -	SPWDRV						
KSAV -	SOLVOC						
KSEG -	ZIJSET						
KSOLN -	EFCHAT						
KSTART -	SOLVOC						
KSYM -	LODSYM						
KSYMDF -	BLKDAT						
KSYMP -	ZIJSET	ZIJDRV	SPWDRV	PUTKVV	NERFLD	FARFLD	
KU -	BMIRHS						
KV -	SET	PUTKVV	GETKVV				
KVA -	FLDDRV						
KVABS -	BLKDAT						
KVARG -	BLKDAT						
KVAXIS -	BLKDAT						
KVBAND -	BLKDAT						
KVBASE -	ZIJDRV						
KVBCRE -	BLKDAT						
KVBCSB -	BLKDAT						
KVBNDW -	BLKDAT						
KVC -	BLKDAT						
KVCB -	BLKDAT						
KVCBP -	BLKDAT						
KVCHKP -	BLKDAT						
KVCLPS -	BLKDAT						
KVCNJG -	BLKDAT						
KVCNV6 -	BLKDAT						
KVCNO9 -	PUTKVV	LODDRV	GETKVV	BLKDAT			
KVCPNC -	BLKDAT						
KVCPNM -	BLKDAT						

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KWCR	-	BLKDAT		
KWCS	-	BLKDAT		
KWCW	-	BLKDAT		
KWCY	-	BLKDAT		
KWC1	-	BLKDAT		
KWC2	-	BLKDAT		
KWD	-	BLKDAT		
KWDBUG	-	BLKDAT		
KWDC	-	BLKDAT		
KWDP	-	BLKDAT		
KWDR	-	BLKDAT		
KWDT	-	BLKDAT		
KWDW	-	BLKDAT		
KWDX	-	BLKDAT		
KWDY	-	BLKDAT		
KWDZ	-	BLKDAT		
KWEC	-	BLKDAT		
KWEC	-	BLKDAT		
KWED	-	BLKDAT		
KWEI	-	BLKDAT		
KWEND	-	BLKDAT		
KWEP	-	PUTKWV	GETKWV	BLKDAT
KWER	-	BLKDAT		
KWES	-	BLKDAT		
KWESRC	-	BLKDAT		
KWEU	-	BLKDAT		
KWFFLD	-	BLKDAT		
KWFLID	-	BLKDAT		
KWFNTP	-	BLKDAT		
KWFRG	-	PUTKWV	GETKWV	BLKDAT
KWGRDT	-	BLKDAT		
KWGTB	-	BLKDAT		
KWILP	-	BLKDAT		
KWINPT	-	BLKDAT		
KWINV	-	BLKDAT		
KWIZE	-	BLKDAT		
KWIRE	-	BLKDAT		
KWIS	-	BLKDAT		
KWLAGL	-	BLKDAT		
KWLBTP	-	LODRV		
KWLGGL	-	BLKDAT		
KWLGGLN	-	BLKDAT		
KWLGPO	-	BLKDAT		
KWLMT	-	BLKDAT		
KWLNLG	-	BLKDAT		
KWLNLN	-	BLKDAT		
KWLNPQ	-	BLKDAT		
KWLOOP	-	BLKDAT		
KWLU	-	BLKDAT		
KWLUB	-	BLKDAT		

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KUMAX	-	GETKMD	BLKDAT						
KUMH	-	BLKDAT							
KUMODL	-	BLKDAT							
KUMXIT	-	BLKDAT							
KUM	-	BLKDAT							
KUMANE	-	ZIJDRV	PUTKVV	PRTKJ	LUODRV	GETKVV	GETKMD	FLODRV	EXCDRV
		BLKDAT							
KUMOX	-	ZIJDRV							
KUMFLO	-	BLKDAT							
KUMMFL	-	PUTKVV	GETKVV	BLKDAT					
KUMP	-	BLKDAT							
KUMR	-	BLKDAT							
KUMOFF	-	TSKXQT	BLKDAT						
KUMON	-	TSKXQT	BLKDAT						
KUMOUTP	-	BLKDAT							
KUMPART	-	BLKDAT							
KUMPC	-	BLKDAT							
KUMPD	-	BLKDAT							
KUMPR	-	BLKDAT							
KUMPHI	-	BLKDAT							
KUMPIVT	-	BLKDAT							
KUMPL	-	BLKDAT							
KUMPLOT	-	BLKDAT							
KUMPLSE	-	BLKDAT							
KUMR	-	BLKDAT							
KUMPRE	-	BLKDAT							
KUMPRGE	-	BLKDAT							
KUMPRLC	-	LOODRV	BLKDAT						
KUMPRNT	-	BLKDAT							
KUMPSH	-	BLKDAT							
KUM1	-	BLKDAT							
KUM2	-	BLKDAT							
KUM	-	BLKDAT							
KUMC	-	BLKDAT							
KUMD	-	BLKDAT							
KUMDP	-	BLKDAT							
KUMDUC	-	BLKDAT							
KUMREAD	-	BLKDAT							
KUMREPL	-	BLKDAT							
KUMFLC	-	BLKDAT							
KUMRITE	-	BLKDAT							
KUMR	-	BLKDAT							
KUMSTR	-	BLKDAT							
KUM1	-	BLKDAT							
KUM2	-	BLKDAT							
KUMSC	-	BLKDAT							
KUMSCDP	-	BLKDAT							
KUMSEGS	-	LOODRV	EXCDRV	BLKDAT					
KUMSEB	-	BLKDAT							
KUMSET	-	BLKDAT							

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KWSIZE	-	BLKDAT							
KWSMOP	-	BLKDAT							
KWSNCS	-	BLKDAT							
KWSOLV	-	BLKDAT							
KWSR	-	BLKDAT							
KWSROP	-	BLKDAT							
KWSRLC	-	LODDR	BLKDAT						
KWSTAT	-	TSKXQT	BLKDAT						
KWSTNT	-	BLKDAT							
KWSH	-	BLKDAT							
KWTAGS	-	LODDR	EXCDRV	BLKDAT					
KWTBM	-	BLKDAT							
KWTNET	-	BLKDAT							
KWTIME	-	PUTKVV	GETKVV	BLKDAT					
KWTRAC	-	TSKXQT	BLKDAT						
KWTRAN	-	BLKDAT							
KWTYPE	-	BLKDAT							
KWT1	-	BLKDAT							
KWT2	-	BLKDAT							
KWV	-	BLKDAT							
KWVALU	-	BLKDAT							
KWVS	-	BLKDAT							
KWVSRC	-	BLKDAT							
KWX	-	BLKDAT							
KWXPNO	-	BLKDAT							
KWX1	-	BLKDAT							
KWX2	-	BLKDAT							
KWY1	-	BLKDAT							
KWY2	-	BLKDAT							
KWZ	-	BLKDAT							
KWZCDS	-	BLKDAT							
KWZGEN	-	BLKDAT							
KWZIMP	-	LODDR	BLKDAT						
KWZLDS	-	BLKDAT							
KWZMAT	-	BLKDAT							
KWZ1	-	BLKDAT							
KWZ2	-	BLKDAT							
KXKY	-	SPUDRV							
K1	-	ZIJSET	SEJCON	DECOMP					
K2	-	ZIJSET	SEJCON						
L	-	ZIJSET	ZIJDRV	SPUDRV	SOLDRV	PAGPLT	LODDR	FLDDR	ERROR
	-	BNPDRV	CONJUG						
LAI	-	NERFLO	FARFLO	CABC					
LAR	-	NERFLO	FARFLO	CABC					
LASTI	-	PAGPLT							
LBI	-	NERFLO	FARFLO	CABC					
LBLK	-	SPUDRV							
LBR	-	NERFLO	FARFLO	CABC					
LCALLR	-	ZZXOUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLO
	-	UNEFLD	TSKXQT	TNHFLO	TNEFLD	SYSRTN	SYSCHK	SYNUPD	SYNMOD

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		SYNDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NERFLD	NOVFIL	MAIN	LUDDRV	LODSYM	LODDRV
		JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
		DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIRNS	BLKDAT	BANDIT
		BACSUB							
LCALNM	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WTRPAT	WTRFIL	WRTCHK	UNHFLD
		UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYNUPD	SYNMOD
		SYNDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NERFLD	NOVFIL	MAIN	LUDDRV	LODSYM	LODDRV
		JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
		DMPDRV	DECOMP	CONJUG	CNVAMP	CABC	BMIRNS	BLKDAT	BANDIT
		BACSUB							
LCI	-	NERFLD	FARFLD	CABC					
LCR	-	NERFLD	FARFLD	CABC					
LD	-	SOLVIC							
LETR	-	BLKDAT							
LI	-	SOLDRV							
LINSEG	-	PUTSEG							
LINMYR	-	SEJCON							
LINDX	-	TSKXQT							
LINE	-	PAGPLT							
LINEAR	-	SPWDRV							
LINK	-	PUTSYM	GETSYM	FNDREC					
LINKA	-	SOLDRV	LUDDRV	FLDDRV					
LINKB	-	SOLDRV	FLDDRV						
LINKC	-	SOLDRV							
LINKP	-	SOLDRV							
LINKX	-	SOLDRV							
LINKY	-	SOLDRV							
LITNMX	-	BLKDAT							
LITNUM	-	ZZXDUM	ZIJDRV	ZCDRV	WRTCHK	TSKXQT	SYNUPD	SYNDEF	STRTUP
		SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PUTSEG	PUTKVV	PRTSYM
		PRTKJ	OPNFIL	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP
		CONVRT	CNVAMP	BLKDAT	BANDIT	BACSUB			
		GETARG	DMPDRV						
LITVAT	-	DMPDRV							
LNK	-	SOLDRV							
LNKBIT	-	FLDDRV							
LNKEXC	-	EXCDRV							
LNKG	-	SOLDRV							
LNKL	-	SOLDRV							
LNKLS	-	LODDRV							
LO	-	SHELL							

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LOAD -	LODDR	LODSYM			
LOADSM -	ZIJDR	SNELL	PUTSYM	GETSYM	FNDREC
LOC -	STATFN	BACSUB			
LOCA -	LUDDR	FLDDR	FARFLD	CABC	
LOCAII -	NERFLD	BACSUB	FARFLD	CABC	
LOCAIJ -	LUDDR	FLDDR	FARFLD	CABC	
LOCAIR -	NERFLD	GETARG	DMPDR		
LOCARG -	TSKXQT	FLDDR	FARFLD	CABC	
LOCBI -	NERFLD	FLDDR	FARFLD	CABC	
LOCBIJ -	NERFLD	FLDDR	FARFLD	CABC	
LOCBIJ -	NERFLD	FLDDR	FARFLD	CABC	
LOCCII -	NERFLD	FLDDR	FARFLD	CABC	
LOCCIR -	NERFLD				
LOCCOL -	ZIJDR				
LOCCUR -	SOLDR				
LOCBIA -	ZIJDR				
LOCCEC -	EXCDR				
LOCEND -	PUTSYM				
LOCENC -	EXCDR				
LOCFC -	EFGMAT				
LOCFCM -	EFGMAT				
LOCFIL -	TSKXQT				
LOCFST -	SYNDEF	PUTSYM	GETSYM	FNDREC	
LOCGL -	EFGMAT				
LOCGEO -	ZIJDR	GETGEO			
LOCI -	LODDR				
LOCL -	BACSUB				
LOCLFT -	SOLDR				
LOCLIT -	DMPDR				
LOCLDB -	ZIJDR	SOLDR			
LOCLST -	SYNDEF	PUTSYM	FNDREC		
LOCNAM -	REBLCK				
LOCNOV -	STRUP	PUTSYM	GETSYM		
LOCNXT -	TSKXQT				
LOCN -	LODDR				
LOCNHS -	SOLDR				
LOCS -	EFGMAT				
LOCSAV -	CNVAMP				
LOCSER -	ZIJDR				
LOCSOL -	SOLDR				
LOCSR -	PUTSYM	GETSYM			
LOCSYM -	ZIJDR	TSKXQT			
LOCTP1 -	TSKXQT				
LOCTP2 -	TSKXQT				
LOCTSK -	TSKXQT				
LOCU -	BACSUB				
LOCYRS -	EXCDR	CNVAMP			
LOCZIJ -	ZIJDR				
LOC1 -	SOLDR	PRTSYM	FLDDR		
LOC2 -	SOLDR				
LODDR -	TSKXQT				

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LODSYM -	ZIJDRV							
LODTYP -	LODDR							
LOOP -	FLDDR							
LOOPMX -	TSKXQT	BLKDAT						
LOOP1 -	FLDDR							
LOOP2 -	FLDDR							
LOOP3 -	FLDDR							
LOPINR -	FLDDR							
LOPHID -	FLDDR							
LOPOT -	FLDDR							
LOPSAV -	FLDDR							
LORDER -	FLDDR							
LPRPGE -	PAGPLT							
LR -	SOLDR							
LRGUTH -	ZZXDM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDR	SOLVOC	SOLVIC	SOLDR	SMATRX	SETDR
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	MAIN	LUDDR	LODSYM	LODDR
	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDR	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT
	DMPDR	DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BLKDAT	BANDIT
	BACSUB							
LRTNUM -	ZZXDM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDR	SOLVOC	SOLVIC	SOLDR	SMATRX	SETDR
	SET	SEJCON	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK
	RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
	NTRPLU	NTRPLT	NERFLD	MOVFIL	MAIN	LUDDR	LODSYM	LODDR
	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
	GETARG	FNDREC	FLDDR	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT
	DMPDR	DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BLKDAT	BANDIT
	BACSUB							
LSAVE -	ZZXDM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	WLKBC
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
	SYMUPD	SYMMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDR
	SOLVOC	SOLVIC	SOLDR	SMATRX	SHELL	SETDR	SET	SEJCON
	SCALE3	SCALE2	RWFILS	RUCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDR	LODSYM	LODDR	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
	FNDREC	FLDDR	FARFLD	FABLD4	EXCDRV	ERROR	EFGMAT	DMPDR
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
	BANDIT	BACSUB	ASSIGN					
	PRTSYM		EXCDRV					
LSTARG -	TSKXQT							
LSTASK -	BLKDAT							
LSTAT -	ZZXDM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
	UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
	SYMDEF	STRUP	SPWDR	SOLVOC	SOLVIC	SOLDR	SMATRX	SETDR

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		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LODSYM	LODDRV	JNCSUN
		IBITCK	GNOREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
		DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BLKDAT	BANDIT	BACSUB
LSTCHK	-	SYSCHK							
LSTCLM	-	DECOMP							
LSTCOL	-	LUSTAT	DECOMP	BLKDAT					
LSTCSY	-	BLKDAT							
LSTDAT	-	BLKDAT							
LSTFNC	-	BLKDAT							
LSTIJ	-	DECOMP							
LSTIMP	-	BLKDAT							
LSTINT	-	BLKDAT							
LSTIOB	-	PRTSYM	BLKDAT						
LSTITR	-	SOLDRV							
LSTMOD	-	STRUP	STATFN						
LSTREC	-	PRTSYM							
LSTROM	-	DECOMP							
LSTSYS	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK	SYSCHK
		SYNDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
LSTTFF	-	TSKXQT	BLKDAT						
LSTURD	-	PUTSYM	GETSYM	DECOMP					
LTRACE	-	TSKXQT	STATOT	STATIN	BLKDAT				
LUDBUG	-	BLKDAT							
LUDDRV	-	TSKXQT							
LUFIL	-	STRUP	PRTSYM	OPNFIL					
LUNET	-	WRTFIL	RDEFIL						
LUPRNT	-	ZZXDUM	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBC	TSKXQT	TRCEBK
		SYSCHK	SYNUPD	SYNDEF	STRUP	STATOT	STATIN	STATFN	SOLDRV
		SMATRX	SETDRV	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NERFLD	MOVFIL	MAIN	LUDDRV	LODDRV	GETSYM	GETSEG	GETKVV
		GETGEO	GETARG	FNDREC	FARFLD	FABLO4	EXCDRV	EFGMAT	ASSIGN
		DMPDRV	DECOMP	CNVAMP	CABC	BLKDAT	BANDIT	BACSUB	
LUTASK	-	LUSTAT	BLKDAT						
LVRUPR	-	PUTSYM	GETSYM	FNDREC					
M	-	SHELL	DECOMP	BMIRHS					
MACHIN	-	BLKDAT							
MANTSA	-	IBITCK	BLKDAT						
MASK	-	FLDDRV							
MATNAM	-	PUTSYM	GETSYM	FNDREC					
MATOP1	-	DMPDRV							
MATOP2	-	DMPDRV							
MAXBLK	-	TSKXQT	SOLDRV	PUTSEG	NERFLD	LODDRV	GETSEG	GETGEO	FARFLD
MAXBUP	-	EXCDRV	CNVAMP						
		DECOMP							

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MAXCDS	-	BLKDAT							
MAXCOL	-	DECOMP							
MAXCON	-	ZIJSET	SEJCON	JNCSUP	BLKDAT				
MAXCOR	-	DECOMP							
MAXCSY	-	BLKDAT							
MAXCYL	-	BLKDAT							
MAXDEF	-	BLKDAT							
MAXECP	-	BLKDAT							
MAXITR	-	SOLDRV							
MAXPLT	-	BLKDAT							
MAXPTS	-	BLKDAT							
MAXRAD	-	BLKDAT							
MAXSEG	-	TSKXGT	SPWDRV	SEJCON	PUTSEG	LUDDRV	LODDRV	GETSEG	EXCDRV
		CNVAMP	CABC	BLKDAT					
MAXSTR	-	SYMDEF	PUTSYM	BLKDAT					
MAXURD	-	PUTSYM	GETSYM						
MAXO	-	SYMDEF	SOLVIC	SETDRV	PUTSYM	LUDDRV	BANDIT		
MBNDW	-	SOLVIC							
MDLE	-	RMCOMS							
MDX	-	EXCDRV							
MINITR	-	SOLDRV							
MINO	-	ZIJDRV	SOLVOC	SOLVIC	SOLDRV	PUTSYM	PUTSEG	PRTSYM	LUDDRV
		GETSYM	FNDREC	EFGMAT	DECOMP	CNVAMP	BACSUB		
MMX	-	BLKDAT							
MM	-	FNDREC							
MOD	-	ZIJDRV	STRTUP	SOLDRV	SEJCON	PUTSEG	PAGPLT	IBITCK	GETGEO
		CNVAMP							
MODCHK	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT			
MODLST	-	STRTUP	STATFN	BLKDAT					
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STRTUP	STATFN	MAIN				
MODNOW	-	STRTUP							
MORE	-	REBLCK	PUTSYM	LUDDRV	GETSYM	FNDREC	BANDIT		
MORITR	-	SOLDRV							
MOVE	-	NOVFIL							
NOVFIL	-	STRTUP	SOLDRV	PUTSYM	GETSYM	DECOMP			
NOVURD	-	PUTSYM	NOVFIL	DECOMP					
NP	-	BMIRHS							
NP1	-	SOLVIC	DECOMP						
NSAVE	-	STATOT	STATIN						
MULJNC	-	SEJCON							
MULOPR	-	OMPDRV							
MXANCT	-	BLKDAT							
MXARGS	-	TSKXGT	BLKDAT						
MXARGT	-	BLKDAT							
MXBAND	-	LUDDRV	DECOMP						
MXCDFG	-	BLKDAT							
MXCTAR	-	BLKDAT							
MXDPCT	-	BLKDAT							
MXECAR	-	BLKDAT							

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MXEXFP	-	BLKDAT							
MXEXPB	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	WLKBCK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2						
M2	-	SCALE3	SCALE2						
N	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STATOT	STATIN	SPWDRV	SOLDRV
		SMATRX	SCALE3	SCALE2	REBLCK	PUTSYM	PRTSYM	PAGPLT	NOVFIL
		LUSTAT	LUDDRV	LODSYM	LODDRV	GETARG	FLDDRV	FABLO4	EXCDRV
		EFGMAT	DMPDRV	DECOMP	BACSUB				
		SYMUPD	SOLDRV	PUTSYM	LUDDRV	GETSYM	FNDREC	BACSUB	
NA	-	SOLDRV							
NACELL	-	SCALE3	SCALE2						
NAL	-	FLDDRV							
NAH	-	SOLDRV							
NANARG	-	RWCOMS							
NANCOM	-	SOLDRV							
NANCVG	-	TSKXQT							
NANDAT	-	BLKDAT							
NAMDEF	-	ZZXDDM	SYMDEF	STRUP	STATOT	STATIN	RWFILS	RWCOMS	PUTKVV
NAME	-	PRTKJ	GETKVV	GETKVD	FLDDRV	EFGMAT			
NAMEA	-	SOLDRV	LUDDRV	FLDDRV	DECOMP	BACSUB			
NAMEB	-	SOLDRV	LUDDRV	FLDDRV					
NAMEC	-	SOLDRV							
NAMEF	-	EFGMAT							
NAMEG	-	EFGMAT							
NAMEL	-	SOLDRV							
NAMEP	-	LUDDRV							
NAMES	-	EFGMAT							
NAMESH	-	ZIJDRV							
NAMEX	-	SOLDRV							
NAMEXC	-	SPWDRV	EXCDRV						
NAMEXP	-	ZIJDRV							
NAMEY	-	SOLDRV							
NAMEYR	-	ZIJDRV	GETGEO						
NAMEZ	-	ZIJDRV	REBLCK						
NAMEZ1	-	ZIJDRV	REBLCK						
NAME1	-	BANDIT							
NAME2	-	BANDIT							
NAMFIL	-	DMPDRV							
NAMGEO	-	ZIJDRV	TSKXQT	GETGEO					
NAMGET	-	BACSUB							
NAMGOM	-	LODDRV							
NAMLDS	-	ZIJDRV	LODDRV						
NAMLVR	-	LUDDRV	BACSUB						

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NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPIS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC	EXCDRV				
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	ZIJSET	ZIJDRV	TSKXQT	SOLDRV	PUTSEG	LODDR	GETSEG	GETGEO
		CNVAMP	BLKDAT						
NAMSHD	-	ZIJDRV							
NAMSUB	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	UNHFLD
		UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD
		SYMMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV	SOLVOC
		SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON	SCALE3
		SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM	PUTSEG
		PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	NTGRAN
		NERFLD	MOVFIL	MAIN	LUDDR	LODSYM	LODDR	JNCSUM	IBITCK
		GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG	FNDREC
		FLDDR	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP
		CONJUG	CNVST	CNVAMP	CLSFIL	CABC	BMRHS	BANDIT	BACSUB
		ASSIGN							
NAMSYM	-	SYMUPD	SETDRV	PRTSYM	LUDDR	GETARG	DMPDRV		
NAMTSK	-	TSKXQT	BLKDAT						
NAMUPR	-	LUDDR	BACSUB						
NAMYRS	-	ZIJDRV							
NAMZIJ	-	ZIJDRV							
NARGMX	-	BLKDAT							
NARGP1	-	EXCDRV							
NARG3	-	EXCDRV							
NARGTB	-	TSKXQT	BLKDAT						
NARITH	-	BLKDAT							
NB	-	SOLDRV	LUDDR						
NBIAS	-	REBLCK	BANDIT						
NBIT	-	SOLDRV							
NBITA	-	SOLDRV	LUDDR	FLDDR	BACSUB				
NBITB	-	SOLDRV							
NBITC	-	SOLDRV							
NBITF	-	EFGMAT							
NBITG	-	EFGMAT							
NBITL	-	LUDDR							
NBITLS	-	LODDR							
NBITS	-	SETDRV	REBLCK	IBITCK	EFGMAT	BACSUB			
NBITV	-	LUDDR							
NBITV0	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBITX	-	SOLDRV							
NBITY	-	SOLDRV							
NBIT1	-	BANDIT							

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NBIT2	-	BANDIT							
NBLANK	-	BLKDAT							
NBLK	-	SOLDRV	FARFLD						
NBNOWA	-	SOLDRV							
NBRMAT	-	SOLDRV							
NBS	-	CONVRT							
NBUF	-	DECOMP							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYTSZ	-	ZIJDRV	LUDDRV	EFGMAT	CONVRT	BLKDAT			
NC	-	ZIJSET	ZIJDRV	SYMMOD	SOLVOC	SOLVIC	SOLDRV	REBLCK	PRTSYM
		CONJUG	BMIRHS	BANDIT					
NCARD	-	LUSTAT	BLKDAT						
NCARDS	-	BLKDAT							
NCCLAS	-	BLKDAT							
NCELLS	-	SOLDRV	SMATRX	EXCDRV					
NCHAR	-	CONVRT	BLKDAT						
NCHLIN	-	PAGPLT							
NCIX	-	ZIJSET	SEJCON	CABC					
NCIZ	-	ZIJSET	SEJCON	CABC					
NCL	-	ZIJDRV							
NCH	-	JNCSUM	BMIRHS						
NCH	-	BANDIT							
NCODE	-	GETKWD	BLKDAT						
NCODES	-	ZIJDRV	TSKXQT	PUTKWD	PRTKJ	LUDDRV	LODDRV	GETKWD	GETKWD
		GETGEO	FLDDRV	EXCDRV	BLKDAT				
		ZIJSET	JNCSUM	DECOMP	BLKDAT				
NCOL	-	SOLDRV	LUDDRV						
NCOLA	-	SOLDRV							
NCOLB	-	SOLDRV							
NCOLC	-	SOLDRV							
NCOLE	-	EXCDRV							
NCOLF	-	EFGMAT							
NCOLG	-	EFGMAT							
NCOLL	-	BACSUB							
NCOLP	-	SOLDRV							
NCOLS	-	ZIJDRV	SYNDEF	SOLVOC	SOLVIC	SETDRV	LUDDRV	EFGMAT	BANDIT
NCOLU	-	BACSUB							
NCOLX	-	SOLDRV							
NCOLY	-	SOLDRV							
NCOL1	-	SYNDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCH	-	BLKDAT							
NCOMHA	-	BLKDAT							
NCOMSZ	-	RVCMS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCONRE	-	LUDDRV	DECOMP						
NCONRN	-	GETGEO							

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NCOX	-	ZIJSET	SEJCON	CABC					
NCOZ	-	ZIJSET	SEJCON	CABC					
NCP	-	JNCSUM							
NC1	-	PRTSYM							
NC1M1	-	PRTSYM							
NC2	-	PRTSYM							
NDAATBL	-	ZIJDRV	TSKXQT	SYMUPD	SYMDEF	STRTUP	SOLDRV	SETDRV	RWFILS
		REBLCK	PUTSYM	PRTSYM	LUDDRV	LODDRV	GETSYM	GETGEO	GETARG
		FNDREC	FLDDRV	EXCDRV	EFGMAT	DMPDRV	DECOMP	CNVAMP	BLKDAT
		BANDIT	BACSUB						
NDAATMX	-	SYMDEF	SOLDRV	BLKDAT	BANDIT				
NDEBUF	-	BLKDAT							
NDF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL
		BLKDAT							
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDIM	-	DECOMP							
NDTASK	-	BLKDAT							
NDX	-	ZIJDRV	TSKXQT	PUTKVV	GETKVV	FLDDRV	EXCDRV		
NDXARG	-	PRTSYM	GETARG	FLDDRV	EXCDRV	DMPDRV			
NDXBLK	-	SPWDRV	SEJCON	PUTSEG	LUDDRV	LODDRV	GETSEG	GETGEO	FARFLD
		EXCDRV	CABC						
NDXFLD	-	FABLO4							
NDXGM	-	LODDRV							
NDXGOM	-	LODDRV							
NDXID	-	LODDRV							
NDXIJ	-	SHATRX							
NDXIK	-	SHATRX							
NDXIKJ	-	SHATRX							
NDXIMR	-	FLDDRV							
NDXJI	-	SHATRX							
NDXKIJ	-	SHATRX							
NDXKVC	-	EXCDRV							
NDXKVB	-	PUTKVV	GETKVV	EXCDRV					
NDXKVS	-	EXCDRV							
NDXKYW	-	DMPDRV							
NDXL	-	LUDDRV	DECOMP						
NDXLNK	-	LUDDRV							
NDXLS	-	LODDRV							
NDXMD	-	FLDDRV							
NDXOUT	-	FLDDRV							
NDXPNT	-	PRTSYM							
NDXPRT	-	PRTSYM							
NDXSYM	-	PRTSYM							
NDXU	-	LUDDRV	DECOMP						
NE	-	EXCDRV							
NEED	-	ZIJDRV	SYMDEF	SOLDRV	SETDRV	LUDDRV			
NEEDF	-	EFGMAT							

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NAME	TYPE	MODE	UNIT	STATUS	REMARKS
NEEDG	-	EFGMAT			
NEEDS	-	EFGMAT			
NENDCD	-	BLKDAT			
NEOFLG	-	BLKDAT			
NERCLI	-	BLKDAT			
NERCOD	-	GETKWD	BLKDAT		
NERCON	-	BLKDAT			
NERDPN	-	BLKDAT			
NEREOF	-	BLKDAT			
NEREXD	-	BLKDAT			
NEREXF	-	BLKDAT			
NEREXP	-	BLKDAT			
NERFLD	-	FLDDRV			
NERINT	-	BLKDAT			
NERNAM	-	BLKDAT			
NEWDAT	-	SYMUPD			
NEUNAM	-	SYMUPD			
NEWSYM	-	SYMDEF	SETDRV		
NEXTI	-	PAGPLT			
NF	-	EFGMAT			
NFILE	-	RWFILS			
NFILES	-	SYMDEF	RVCOMS	PUTKUV	GETKUV ERROR BLKDAT
NFINCD	-	BLKDAT			
NFRAC	-	BLKDAT			
NG	-	SOLDRV	LODDRV	EFGMAT	
NGEOM	-	PRTSYM			
NI	-	SPWDRV	PAGPLT		
NILEGL	-	BLKDAT			
NINC	-	FLDDRV	EFGMAT		
NINT	-	WYRPAT	BLKDAT		
NITEMS	-	STATFN	SHELL		
NL	-	SOLDRV	PRTSYM	LODDRV	BACSUB
NLAST	-	SOLVOC			
NLEFT	-	SOLDRV			
NLETR	-	BLKDAT			
NLOOPS	-	TSKXQT	BLKDAT		
NM	-	SOLVIC	SOLDRV	ROMBNT	BANDIT
NMAT	-	LUDDRV	DECOMP		
NMNAMS	-	BLKDAT			
NMOD	-	PAGPLT			
NMREC	-	SOLDRV			
NMSPTR	-	BLKDAT			
NMTIMS	-	BLKDAT			
NMURDS	-	RVCOMS			
NM1	-	SOLDRV	BACSUB		
NN	-	ZIJDRV			
NOEND	-	BLKDAT			
NOGOFG	-	TSKXQT	SOLDRV	RVCOMS	MAIN LODDRV FLDDRV DMPDRV CNVAMP
		BLKDAT	BANDIT		
NOP	-	TSKXQT			

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NOPCOD	-	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PRTSYM	LUDDRV	LODDRV	GETARG
NOPNAM	-	FLDDRV	EXCDRV	DMPDRV	BLKDAT				
NOSTAT	-	CONVRT							
		ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKBC
		UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTH	SYSCHK
		SYMUPD	SYNMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV
		SOLVOC	SOLVIC	SOLDRV	SMATR	SHELL	SETDRV	SET	SEJCON
		SCALE3	SCALE2	RUFILS	RVCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
		PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
		NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
		IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
		DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
		BANDIT	BACSUB	ASSIGN					
NOTASK	-	BLKDAT							
NOTTAG	-	LODDRV							
NP	-	ZIJDRV	SYNMOD	SCALE3	SCALE2	PUTSYM	PRTSYM	PAGPLT	LUDDRV
NPAREN	-	BLKDAT							
NPATCH	-	ZIJSET	ZIJDRV	SPWDRV	GETGEO	EXCDRV	BLKDAT		
NPASV	-	SYMDEF							
NPDATA	-	ZIJDRV	SYMUPD	SYMDEF	STRUP	SOLDRV	RUFILS	REBLCK	PUTSYM
		LUDDRV	LODDRV	GETSYM	GETARG	FNDREC	FLDDRV	EFGMAT	DMPDRV
		DECOMP	BACSUB						
NPEAR	-	BLKDAT							
NPEDPC	-	BLKDAT							
NPEDPL	-	BLKDAT							
NPEDRM	-	BLKDAT							
NPEIFO	-	BLKDAT							
NPEKVD	-	BLKDAT							
NPELAB	-	BLKDAT							
NPELIT	-	BLKDAT							
NPELML	-	BLKDAT							
NPELOO	-	BLKDAT							
NPELOP	-	BLKDAT							
NPELST	-	BLKDAT							
NPENOI	-	BLKDAT							
NPENOM	-	BLKDAT							
NPENRG	-	BLKDAT							
NPENTK	-	BLKDAT							
NPENUM	-	BLKDAT							
NPERGE	-	BLKDAT							
NPEROD	-	BLKDAT							
NPESCH	-	BLKDAT							
NPESX	-	BLKDAT							
NPESYH	-	BLKDAT							
NPETSK	-	BLKDAT							
NPRAIJ	-	SOLVOC	SOLVIC	DECOMP					
NPRLCK	-	SOLDRV							
NPRLUF	-	RUFILS	MOVFIL						
NPRLCEL	-	LODSYM							

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NPRCOL	-	SOLDRV	LUDDRV	DECOMP					
NPRDEF	-	BLKDAT							
NPRELM	-	SOLVOC	SOLVIC	SOLDRV	SETDRV	RWFILS	REBLCK	PUTSYM	PRISYM
		LUDDRV	GETSYM	FNDREC	DECOMP	BANDIT	BACSUB		
NPRFMT	-	FABLO4							
NPRFPT	-	FLDDRV							
NPRGET	-	LUDDRV							
NPRLIN	-	PRTSYM	DECOMP						
NPRPRT	-	PUTSYM	PRTSYM	GETSYM	FNDREC				
NPRPT	-	BLKDAT							
NPRREC	-	TSKXQT	RWFILS	PUTSYM	PRTSYM	GETSYM	FNDREC		
NPRROW	-	LODDRV	DECOMP						
NPRSEG	-	TSKXQT	PUTSEG	LUDDRV	BLKDAT				
NPRSER	-	BLKDAT							
NPRSYM	-	ZIJDRV							
NPSAV	-	DMPDRV							
NPTASK	-	TSKXQT							
NPTBUF	-	BLKDAT							
NPVT	-	LUDDRV							
NP1	-	SOLDRV	PRTSYM						
NP2	-	PRTSYM							
NR	-	ZIJSET	ZIJDRV	SYNMOD	SPWDRV	SOLVOC	SOLVIC	REBLCK	PRTSYM
		CONJUG	BMIRHS						
NREAD	-	WRJCHK	STARTUP	RWFILS	RWCOMS	DECOMP			
NREADA	-	DECOMP							
NRECA	-	DECOMP							
NRECS	-	SOLDRV	RWFILS	PUTSYM					
NREC1	-	BACSUB							
NREC2	-	BACSUB							
NRNAMS	-	STATFN	BLKDAT	ASSIGN					
NROV	-	ZIJSET	JNCSUM	DECOMP					
NROWA	-	SOLDRV	LUDDRV						
NROWB	-	SOLDRV							
NROWC	-	SOLDRV							
NROWCC	-	SOLDRV							
NROVE	-	EXCDRV							
NROWF	-	EFGMAT							
NROWG	-	EFGMAT							
NROWL	-	BACSUB							
NROUP	-	SOLDRV							
NROWS	-	ZIJDRV	SYNDEF	SOLVOC	SOLVIC	SETDRV	PRTSYM	LUDDRV	LODDRV
		EFGMAT	BANDIT	BACSUB					
NROWU	-	BACSUB							
NROWX	-	ZIJDRV	SOLDRV						
NROWY	-	SOLDRV							
NROW1	-	SYNDEF	DMPDRV						
NROW2	-	DMPDRV							
NRSUBS	-	STATFN	RWCOMS	BLKDAT					
NRTMS	-	STATIN	STATFN	RWCOMS	BLKDAT				
NRWX2	-	ZIJDRV							

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NR1	-	PRTSYM							
NR2	-	PRTSYM							
NS	-	ZIJSET	ZIJDRV	SYNUPD	SYMMOD	SYMDEF	SETDRV	RWFILS	ROMBNT
		GETGEO	EXCDRV	EFGMAT					
NSAV	-	FLDDRV							
NSCNER	-	GETKWD	BLKDAT						
NSH	-	ZIJDRV	CONVRT						
NSHAD	-	ZIJSET	ZIJDRV						
NSHFTS	-	BLKDAT							
NSHIFT	-	ZIJDRV	LUDDRV	EFGMAT					
NSYM	-	SMATRX	LODSYM						
NSYMBL	-	SYNUPD	SYMDEF	LUDDRV	BACSUB				
NT	-	TSKXQT	ROMBNT						
NTAB	-	GETKWD	BLKDAT						
NTALPH	-	PRTSYM	BLKDAT						
NTASK	-	BLKDAT							
NTASKE	-	EXCDRV							
NTASKS	-	BLKDAT							
NTASKV	-	EXCDRV							
NTCELL	-	BACSUB							
NTDM	-	BLKDAT							
NTDPF1	-	BLKDAT							
NTDPF2	-	BLKDAT							
NTENPS	-	ZIJDRV	SOLDRV	SETDRV	RWFILS	PUTSYM	MOVFIL	LUDDRV	FLDDRV
		EXCDRV	EFGMAT	BLKDAT					
NTEND	-	BLKDAT							
NTERR	-	BLKDAT							
NTFLPT	-	ZIJDRV	SOLDRV	SETDRV	LODDRV	GETARG	FLDDRV	EXCDRV	DMPDRV
		BLKDAT							
NTGRAN	-	ROMBNT							
NTINT	-	TSKXQT	GETARG	DMPDRV	BLKDAT				
NTKEYV	-	GETKWD	DMPDRV	BLKDAT					
NTLEFT	-	BACSUB							
NTPARC	-	GETARG							
NTPGTO	-	BLKDAT							
NTBCLK	-	PUTSEG							
NTRPLT	-	ZIJSET							
NTRPLU	-	ZIJSET							
NTS	-	ROMBNT							
NTSFMT	-	BLKDAT							
NTSKMX	-	BLKDAT							
NTSKTB	-	TSKXQT	BLKDAT						
NTSYMB	-	ZIJDRV	GETGEO	GETARG	EXCDRV	DMPDRV	BLKDAT		
NTTASK	-	BLKDAT							
NU	-	BACSUB							
NUMARG	-	ZZXDUM	TSKXQT	SOLDRV	SET	PRTSYM	LODDRV	FLDDRV	EXCDRV
		DMPDRV	BLKDAT						
NUMBAS	-	ZIJDRV							
NUMBLK	-	PUTSEG	GETSEG						
NUMCHK	-	WRTCHK	BLKDAT						

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NUMCOL	-	SOLVOC	SETDRV	PUTSYM	DECOMP	BACSUB			
NUMCOM	-	RWCONS							
NUMCYL	-	GETGEO	BLKDAT						
NUMECP	-	GETGEO	BLKDAT						
NUMELM	-	PRTSYM							
NUMGTD	-	GETGEO	EFGMAT	BLKDAT					
NUMITR	-	SOLDRV							
NUMLFT	-	RDEFIL							
NUMMAT	-	SOLDRV	REBLCK	LUDDRV	BANDIT	BACSUB			
NUMPLT	-	GETGEO	BLKDAT						
NUMPTS	-	BLKDAT							
NUMREC	-	RWFILS	PRTSYM						
NUMROW	-	SOLVOC	SETDRV	PUTSYM	GETSYM	FNDREC	BACSUB		
NUMSB	-	STATOT	STATIN	ASSIGN					
NUMSEG	-	ZIJDRV	SEJCON	PUTSEG	LODDRV	GETGEO	EXCDRV	CABC	BLKDAT
NUMSUB	-	ZZXDOM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLD
		UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYCHK	SYNUPD
		SYMOD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SPWDRV	SOLVOC
		SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON	SCALE3
		SCALE2	RWFILS	RWCONS	ROMBNT	REBLCK	RDEFIL	PUTSYM	PUTSEG
		PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT	NERFLD
		MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM	IBITCK	GNDREF
		GETSYM	GETSEG	GETKVV	GETKVD	GETGEO	GETARG	FNDREC	FLDDRV
		FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV	DECOMP	CONJUG
		CNVAMP	CABC	BMIRNS	BANDIT	BACSUB	ASSIGN		
NUMSYM	-	GETARG							
NUMTSK	-	TSKXQT	OPNFIL						
NUMVIP	-	BLKDAT							
NUMWRD	-	SYMDEF	ROMBNT	PRTSYM	FABLO4				
NUMYRS	-	SPWDRV	EXCDRV						
NUMPER	-	LUDDRV							
NVAL	-	TSKXQT	STRUP	SOLDRV	SETDRV	RWFILS	PUTKVV	MAIN	GETKVV
		GETKVD	DMPDRV	BLKDAT					
NVALMX	-	GETKVD	BLKDAT						
NV	-	CONVRT							
NWDSIZ	-	CONVRT	BLKDAT						
NWIRE	-	ZIJSET	ZIJDRV	SPWDRV	SOLDRV	SEJCON	NERFLD	GETGEO	FARFLD
		EXCDRV	CNVAMP	CABC	BLKDAT				
NWORD	-	CONVRT							
NWORDS	-	WRTFIL	RDEFIL						
NWRDS	-	DECOMP							
NX	-	SPWDRV	SOLDRV	SCALE3	SCALE2	ROMBNT			
NXINT	-	PAGPLT							
NXTARG	-	LODDRV	FLDDRV	EXCDRV	DMPDRV				
NXTCOL	-	BACSUB							
NXTSYM	-	SYMDEF	BLKDAT						
NXTTSK	-	TSKXQT							
NXTWRD	-	DECOMP	CONVRT						
NXVAL	-	PAGPLT							
NY	-	ZIJDRV	SPWDRV	SOLDRV	EXCDRV				

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NYINT	-	PAGPLT								
NYSYM	-	ZIJSET	ZIJDRV	SOLDRV						
NYV	-	PAGPLT								
NYVAL	-	PAGPLT								
NZ	-	ZIJORV	SPWDRV	LDSYM						
NO	-	GETSYM								
N1	-	PUTSYM	LUDDRV	BANDIT	BACSUB					
N2	-	PUTSYM	BANDIT	BACSUB						
OHMS	-	LODDRV								
OLDSCR	-	SOLDRV								
OLDIRE	-	SOLDRV								
OMEGA	-	FARFLD								
OPNFIL	-	WRCHK DECOMP	TSKXGT CADC	SYNDEF	STATFM	SOLDRV	RWFILS	PUTSYM	PRTSYM	
PARTB	-	RMCONS								
PATCH	-	NERFLD								
PCNT	-	STATFM								
PH	-	ZINT								
PHAZ	-	SHATRX								
PHI	-	SPWDRV	FARFLD	EXCDRV						
PHIS	-	SPWDRV								
PHX	-	NTRPLT	FARFLD							
PHY	-	NTRPLT	FARFLD							
PHZ	-	NTRPLT								
PI	-	ZINT	FARFLD							
PIVRAT	-	DECOMP								
PLMAY	-	SPWDRV								
POT	-	ZINT								
PREIRE	-	SOLDRV								
PREIR	-	SOLDRV								
PRTKJ	-	ZIJDRV	EXCDRV							
PRTSYM	-	TSKXGT								
PTIME	-	TICNEK	STATOT	STATIN						
PTBLE	-	BLKOAT								
PUTKUV	-	DMPDRV								
PUTSYM	-	ZIJDRV LUDDRV	WRCHK LODDRV	STRTUP GETSEG	SOLDRV FLDDRV	SEDRV EXCDRV	RWFILS EFGMAT	REBLCK DMPDRV	PUTSEG BANDIT	
PURIN	-	SOLDRV								
PURLOS	-	SOLDRV								
PX	-	ZIJSET	NERFLD	GNDREF						
PY	-	ZIJSET	NERFLD	GNDREF						
Q1	-	NERFLD								
Q2	-	NERFLD								
R	-	ZIJSET	UNHFLD	UNEFLD	SPWDRV	PUTSEG	NERFLD	EXCDRV	DMPDRV	
RAD	-	BLKOAT								
RAPPRX	-	ZIJDRV								
RATIO	-	BANDIT								
RDEFIL	-	STRTUP	SOLDRV	RWFILS	RMCONS	PUTSYM	MOVFIL	GETSYM	DECOMP	
ROTODG	-	PRTSYM	FLDDRV							
READ	-	RMCONS	RDEFIL	NERFLD	LUSTAT	FARFLD				

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REAL	-	ZIJSET	SPWDRV	SOLVIC	SOLDRV	SETDRV	LODSYM	LODDR	GNDREF
		FLDDR	DECOMP	CABC					
REALM	-	DECOMP							
REBLCK	-	ZIJDRV							
REFH	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	STRTUP
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYM	NTRPLU	NTRPLT
		NERFLD	LODDR	JNCSUM	GNDREF	GETKVV	FLDDR	FARFLD	EXCDRV
		CNVAMP	CABC	BLKDAT					
REFLECT	-	SPWDRV							
REFV	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD	STRTUP
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRTSYM	NTRPLU	NTRPLT
		NERFLD	LODDR	JNCSUM	GNDREF	GETKVV	FLDDR	FARFLD	EXCDRV
		CNVAMP	CABC	BLKDAT					
RELERR	-	SOLDRV							
RETURN	-	ZZXDUM	ZINT	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK
		WLKDC	UNHFLD	UNEFLD	TSKXGT	TRCEBK	TNHFLD	TNEFLD	TICKEK
		SYSRTH	SYSCHK	SYNUPD	SYNMOD	SYNDEF	STRTUP	STATOT	STATIN
		STATFN	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NTGRAN	NERFLD	NOVFIL	LUSTAT	LUDDR	LODSYM
		LODDR	JNCSUM	IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDDR	FARFLD	FABLO4	EXCDRV	ERROR
		EFGMAT	DMPDRV	DECOMP	CONVRT	CONJUG	CNVTST	CNVAMP	CLSFIL
		CABC	BMIRHS	BANDIT	BACSUB	ASSIGN			
REX	-	FLDDR							
REY	-	FLDDR							
REZ	-	FLDDR							
RF	-	SPWDRV							
RFL	-	SPWDRV							
RFL	-	ZIJSET	NERFLD						
RH	-	ZIJSET	TNHFLD	TNEFLD	NTRPLT	NERFLD			
RHK	-	TNHFLD	TNEFLD	NTGRAN					
RHO	-	SPWDRV							
RHOSQ	-	SPWDRV							
RHOX	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RHOY	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RHOZ	-	ZIJSET	NTRPLT	NERFLD	GNDREF				
RHS	-	BMIRHS	BACSUB						
RHSK	-	BMIRHS							
RH2	-	TNHFLD							
RH2	-	NERFLD							
RI	-	SPWDRV	LODDR	FARFLD					
RINP	-	SPWDRV							
RINV	-	FLDDR							
RITEMS	-	STATFN							
RJ1	-	UNEFLD							
RJ2	-	UNEFLD							
RK	-	UNHFLD	UNEFLD	NTGRAN	NERFLD				
RKB	-	TNEFLD							

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RKB2	-	TNEFLD	NTGRAN						
RKN	-	ZIJSET							
RKN1	-	ZIJSET							
RKN1IN	-	ZIJSET							
RK2	-	NTGRAN	NERFLD						
RL	-	LODDRV							
RMAG	-	ZIJSET	NERFLD						
ROLAM	-	ZINT							
ROMBNT	-	TNHFLD	TNEFLD						
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
ROUT	-	SPUDRV							
ROWDR	-	PRTSYM							
ROX	-	FARFLD							
ROY	-	FARFLD							
ROZ	-	FARFLD							
RPART	-	PRTSYM							
RPARTE	-	PRTSYM							
RPPRX	-	ZIJDRV							
RR	-	FARFLD							
RRH	-	FARFLD							
RRK2	-	NTGRAN							
RRK3	-	NTGRAN							
RRV	-	FARFLD							
RS	-	SPUDRV	NERFLD						
RSQ	-	SPUDRV							
RSTART	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LODDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
RSTRTA	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LODDRV	LODDRV	GETSYM	GETKVV
		FARFLD	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT			
RTINS	-	STATOT	STATIN	BLKDAT					
RV	-	SETDRV							
RWCOMS	-	WRTCHK	STRUP						
RWFILS	-	WRTCHK	STRUP						
RX	-	ROMBNT							
R1	-	TNHFLD							
R1K	-	TNHFLD	TNEFLD						
R1KS	-	TNEFLD							
R2	-	ZIJSET	UNHFLD	UNEFLD	TNHFLD				
R2K	-	UNEFLD	TNHFLD	TNEFLD					
R2KS	-	TNEFLD							
R3	-	UNHFLD	UNEFLD	NERFLD					
R5	-	UNEFLD	NERFLD						
S	-	ZINT	ZIJSET	TNHFLD	TNEFLD	SEJCON	NERFLD		
SABE	-	ZIJSET	WYRPAT	SEJCON	NTRPLU				

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SABJ -	ZIJSET	SEJCON	NTRPLT	NERFLD	GNDREF			
SALPI -	ZIJSET	WYRPAT	SEJCON	NTRPLU				
SALPJ -	ZIJSET	SEJCON						
SALPR -	ZIJSET	NTRPLT	NERFLD	GNDREF				
SCALE -	BLKDAT							
SCALE5 -	BLKDAT							
SCALE2 -	PAGPLT							
SCALE3 -	PAGPLT							
SCNPR -	RUCOMS							
SDHK -	TNHFLD							
SEGLGN -	EXCDRV							
SEGNAM -	EXCDRV							
SEGR -	LODDRV							
SEGTBL -	ZIJSET	ZIJDRV	WATCHK	TSKXQT	STRUP	SPWDRV	SOLDRV	SEJCON
	RWFILS	PUTSEG	NERFLD	LUDDRV	LODDRV	GETSEG	GETGEO	FLODRV
	FARFLD	EXCDRV	CHVAMP	CABC	BLKDAT			
	CABC							
SEJCON -	ZIJSET							
SET -	TSKXQT							
SETAC1 -	ZIJSET							
SETDRV -	TSKXQT							
SGI -	ROMBNT							
SGMNT -	RUCOMS							
SGR -	ROMBNT							
SHELL -	STATFN							
SI -	NTGRAN	EFGMAT						
SIGL -	ZINT							
SIGMA -	ZIJDRV	PUTKVV	GETKVV	BLKDAT				
SILK -	NTRPLT	CABC						
SILL -	FARFLD							
SIN -	ZIJSET	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV	SMATRX	NTRPLT
	NTGRAN	NERFLD	FLDDRV	FARFLD	CABC			
SINARG -	SPWDRV							
SINC2 -	FLDDRV							
SINC3 -	FLDDRV							
SINETA -	SPWDRV							
SINK -	NTRPLT	CABC						
SINL -	NTRPLT	CABC						
SINP -	SPWDRV							
SINT -	TNEFLD	SPWDRV						
SINTSQ -	SPWDRV							
SIZE -	DECOMP							
SJ1 -	SEJCON							
SJ2 -	SEJCON							
SKI -	SOLVOC							
SKR -	SOLVOC							
SKT -	TNEFLD							
SMATRX -	ZIJDRV	SOLDRV						
SMSTR -	RUCOMS							
SNC -	SEJCON							
SOL -	SOLVOC	BMIRMS						

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SOLDRV	-	TSKXQT						
SOLIRE	-	SOLDRV						
SOLJ	-	SOLVOC						
SOLJI	-	SOLVOC						
SOLJR	-	SOLVOC						
SOLKI	-	SOLVOC						
SOLKR	-	SOLVOC						
SOLMAG	-	SOLDRV						
SOLVIC	-	BACSUB						
SOLVOC	-	BACSUB						
SORT	-	ZIJSET	ZIJDRV	SPWDRV	SOLDRV	SET	SEJCON	PUTSEG
		LODDRV	GETSEG	GETGEO	FLDDRV	EXCDRV	CNVAMP	BLKDAT
SPWDRV	-	EXCDRV						
SRRT	-	ZINT	ZIJSET	WYRPAT	UNHFLD	UNEFLD	TNHFLD	SPWDRV
		SOLDRV	ROMBNT	PRTSYM	NTGRAN	NERFLD	LODDRV	EXCDRV
		DECOMP	BANDIT					
SQRTRC	-	PRTSYM						
SQUARE	-	DECOMP						
SR	-	EFGMAT						
SRAY	-	WRTCHK						
SRK	-	UNHFLD	NTGRAN					
SR1	-	TNEFLD						
SR1K	-	TNHFLD						
SR1R	-	TNEFLD						
SR1RR	-	TNEFLD						
SR2	-	TNEFLD						
SR2K	-	TNHFLD						
SR2R	-	TNEFLD						
SR2RR	-	TNEFLD						
SS	-	ROMBNT						
SSY	-	TNEFLD						
STATFN	-	MAIN	ERROR					
STATIN	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	UNHFLD
		UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT
		NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LOOSYM	LODDRV
		IBITCK	GNOREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
		DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BANDIT	BACSUB
STATOT	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK
		UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SMATRX
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT
		NTRPLU	NTRPLT	NERFLD	MOVFIL	LUDDRV	LOOSYM	LODDRV
		IBITCK	GNOREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT
		DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BANDIT	BACSUB

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STOP	-	ZIJSET	ZIJDRV	WRTFIL	WLKBCK	TSKXQT	SYSCHK	SYMUPD	SYMDEF
		STRUP	SOLDRV	SMATRX	SETDRV	SEJCON	RWFILS	REBLCK	RDEFIL
		PUTSYM	PUTKVV	OPNFIL	MOVFIL	MAIN	LUDDRV	LODDRV	GETSYM
		GETKVV	GETARG	FNDREC	FLDDRV	FABLO4	EXCDRV	EFGMAT	DMPDRV
		DECOMP	CNVAMP	BANDIT	BACSUB				
STOR	-	FARFLO							
STRUP	-	MAIN							
SUBOPR	-	DMPDRV							
SUMI	-	SOLVIC							
SUMR	-	SOLVIC							
SYMDEF	-	ZIJDRV	TSKXQT	SOLDRV	SETDRV	PUTSYM	LUDDRV	LODDRV	FLDDRV
		EXCDRV	EFGMAT	DMPDRV	BANDIT				
SYMFLG	-	ZIJDRV							
SYMHOD	-	ZIJDRV	SOLDRV						
SYMOP	-	SYMHOD	SMATRX						
SYMUPD	-	ZIJDRV	TSKXQT	SOLDRV	PUTSEG	LUDDRV	LODDRV	FLDDRV	EXCDRV
		BANDIT							
SYSCHK	-	ZIJDRV	TSKXQT	DECOMP					
SYSFL	-	RWCOMS							
SYSLST	-	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK
		SYMDEF	STRUP	STATFN	SOLDRV	SETDRV	RWFILS	RDEFIL	PUTSYM
		PUTKVV	OPNFIL	NERFLD	MAIN	LUDDRV	LODDRV	GETSYM	GETKVV
		FARFLO	EXCDRV	ERROR	DECOMP	CNVAMP	CABC	BLKDAT	ASSIGN
SYSRTN	-	MAIN							
SZPK	-	TNHFLD							
S1	-	WYRPAT							
S2	-	WYRPAT							
S2SAVE	-	WYRPAT							
T	-	WRTCHK	TICKEK	SPWDRV					
TAGNAM	-	EXCDRV							
TC1	-	UNEFLD							
TCR	-	UNEFLD							
TEMP	-	ZIJDRV	WRTCHK	SYMDEF	SPWDRV	SOLDRV	SETDRV	RWFILS	RWCOMS
		PUTSYM	PRTSYM	NERFLD	MOVFIL	MAIN	LUDDRV	LODDRV	FLDDRV
		FARFLO	EXCDRV	EFGMAT	DMPDRV	CABC	BLKDAT	BANDIT	
TE1I	-	ROMBNT							
TE1R	-	ROMBNT							
TE2I	-	ROMBNT							
TE2R	-	ROMBNT							
TFX	-	GNDREF							
TFY	-	GNDREF							
TFZ	-	GNDREF							
TH	-	ZINT							
THET	-	FARFLO							
THETA	-	SPWDRV	EXCDRV						
THETS	-	SPWDRV							
TNX	-	FARFLO							
TNY	-	FARFLO							
TNZ	-	FARFLO							
TI	-	UNHFLD							

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TICKEK -	ZIJSET	WRTCHK	TSKXQT	SYSCHK	DECOMP			
TIMCHK -	SYSCHK							
TIME -	SYSRTN	MAIN						
TIMIN -	STATIN							
TIMOUT -	STATOT							
TIMTGO -	ZIJSET	SYSCHK	PUTKWV	GETKWV	DECOMP	BLKDAT		
TIX -	UNHFLD							
TIY -	UNHFLD							
TIZ -	UNHFLD							
TLAST -	TICKEK	SYSCHK						
TLEFT -	ZIJSET	DECOMP						
TMPBUF -	PUTSYM	GETSYM						
TNEFLD -	NTRPLT	NERFLD						
TNHFLD -	NERPLT							
TNOW -	ZIJSET	TSKXQT	SYSCHK	DECOMP				
TOO -	FARFLD							
TOP -	FARFLD							
TOTAL -	STATFN							
TOTCON -	CNVAMP							
TP -	ZINT							
TPCEPI -	ZIJDRV	BLKDAT						
TPCMU -	ZINT							
TPIRSQ -	ZIJSET							
TR -	UNHFLD							
TRACE -	MAIN							
TRACST -	ZZXDUM	ZIJSET	ZIJDRV	ZCDVR	WYRPAT	WRTFIL	WRTCHK	WLKCK
	UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
	SYMPOD	SYMMOD	SYNDEF	STRUP	STATOT	STATIN	STATFN	SPUDRV
	SOLVOC	SOLVIC	SOLDRV	SMATRX	SHELL	SETDRV	SET	SEJCON
	SCALE3	SCALE2	RWFILS	RWCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
	PUTSEG	PUTKWV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
	NTGRAN	NERFLD	MOVFIL	MAIN	LUDDRV	LODSYM	LODDRV	JNCSUM
	IBITCK	GNDREF	GETSYM	GETSEG	GETKWV	GETKWD	GFTGEO	GETARG
	FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
	DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
	BANDIT	BACSUB	ASSIGN					
TRANSP -	SOLVIC							
TRCEBK -	WLKCK	ERROR						
TRX -	UNHFLD							
TRY -	UNHFLD							
TRZ -	UNHFLD							
TS -	TICKEK							
TSKXQT -	MAIN							
TSTART -	ZIJSET	DECOMP						
TSUMS -	BLKDAT							
TTINS -	BLKDAT							
TWOPI -	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	SMATRX	PUTKWV
	NERFLD	LODDRV	FARFLD	EXCDRV	BLKDAT			
TX -	NTRPLT							
TY -	NTRPLT							

MOM Module

I N D E X

***** SUPER INDEX *****

TYPE	-	DECOMP				
TZ	-	NTRPLT				
T001	-	ROMBNT				
T00R	-	ROMBNT				
T011	-	ROMBNT				
T01R	-	ROMBNT				
T021	-	ROMBNT				
T02R	-	ROMBNT				
T1	-	UNEFLD	TNHFLD	TNEFLD		
T11	-	UNEFLD				
T1K	-	TNHFLD				
T1R	-	UNEFLD				
T1S	-	TNEFLD				
T1X	-	SPWDRV	CABC			
T1X1	-	SEJCON	NTRPLU	NTRPLT		
T1XJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T1Y	-	SPWDRV	CABC			
T1Y1	-	SEJCON	NTRPLU	NTRPLT		
T1YJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T1Z	-	SPWDRV	CABC			
T1Z1	-	SEJCON	NTRPLU	NTRPLT		
T1ZJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	SEJCON
T1ZJ1	-	ZIJSET				
T101	-	ROMBNT				
T10R	-	ROMBNT				
T111	-	ROMBNT				
T11R	-	ROMBNT				
T2	-	UNEFLD	TNHFLD	TNEFLD		
T2C	-	TNHFLD				
T21	-	UNEFLD				
T2R	-	UNEFLD				
T2S	-	TNHFLD	TNEFLD			
T2X	-	SPWDRV	CABC			
T2X1	-	SEJCON	NTRPLU	NTRPLT		
T2XJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T2Y	-	SPWDRV	CABC			
T2Y1	-	SEJCON	NTRPLU	NTRPLT		
T2YJ	-	WYRPAT	UNHFLD	UNEFLD	SEJCON	
T2Z	-	SPWDRV	CABC			
T2Z1	-	SEJCON	NTRPLU	NTRPLT		
T2ZJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	SEJCON
T2ZJ1	-	ZIJSET				
T201	-	ROMBNT				
T20R	-	ROMBNT				
T3	-	UNEFLD	TNEFLD			
T3C	-	TNHFLD				
T3S	-	TNHFLD	TNEFLD			
T4	-	UNEFLD	TNEFLD			
T4S	-	TNEFLD				
U	-	FLOORV				

MOM Module

I N D E X

***** SUPER INDEX *****

UNEFLD	-	WYRPAT	NTRPLU						
UNHFLD	-	NTRPLU							
UPDBLK	-	ZIJSET	ZIJDRV	WRTCHK	TSKXQT	STRTUP	SPWDRV	SOLDRV	SEJCON
		RWFILS	PUTSEG	NERFLD	LUODRV	LODDRV	GETSEG	GETGEO	FLDDRV
		FARFLD	EXCDRV	CNVAMP	CABC	BLKDAT			
U1X	-	FLDDRV							
U1Y	-	FLDDRV							
U1Z	-	FLDDRV							
U2X	-	FLDDRV							
U2Y	-	FLDDRV							
U2Z	-	FLDDRV							
U3X	-	FLDDRV							
U3Y	-	FLDDRV							
U3Z	-	FLDDRV							
V	-	SOLVIC							
VAL	-	TSKXQT	STRTUP	SOLDRV	SETDRV	RWFILS	PUTKVV	MAIN	GETKVV
		GETKWD	DMPDRV	BLKDAT					
VALUKW	-	PUTKVV	GETKVV						
VI	-	SPWDRV	SOLVIC						
VINT	-	SCALE3	SCALE2						
VLT	-	SOLDRV							
VMAG	-	SPWDRV	EXCDRV						
VOLTS	-	SPWDRV							
VPHI	-	EXCDRV							
VR	-	SPWDRV	SOLVIC						
VTHETA	-	EXCDRV							
WAVLGH	-	ZIJDRV	TNEFLD	PUTKVV	LODDRV	EXCDRV			
WAVNUM	-	ZIJSET	ZIJDRV	UNHFLD	UNEFLD	TNHFLD	TNEFLD	SPWDRV	PUTKVV
		NTRPLT	NERFLD	LODDRV	FARFLD	EXCDRV	CABC		
WIRE	-	SPWDRV							
WLKBCK	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	UNHFLD
		UNEFLD	TSKXQT	TNHFLD	TNEFLD	SYSRTN	SYSCHK	SYMUPD	SYMMOD
		SYMDEF	STRTUP	SPWDRV	SOLVOC	SOLVIC	SOLDRV	SNATRX	SETDRV
		SET	SEJCON	SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL
		NTRPLU	NTRPLT	NERFLD	MOVFIL	LUODRV	LOOSYM	LODDRV	JNCSUM
		IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
		DECOMP	CONJUG	CNVAMP	CABC	BMIRHS	BANDIT	BACSUB	
WORDS	-	ZZXDUM	ZIJSET	ZIJDRV	ZCDRV	WYRPAT	WRTFIL	WRTCHK	WLKBCK
		UNHFLD	UNEFLD	TSKXQT	TRCEBK	TNHFLD	TNEFLD	SYSRTN	SYSCHK
		SYMUPD	SYMMOD	SYMDEF	STRTUP	STATOT	STATIN	STATFN	SPWDRV
		SOLVOC	SOLVIC	SOLDRV	SNATRX	SHELL	SETDRV	SET	SEJCON
		SCALE3	SCALE2	RWFILS	RVCOMS	ROMBNT	REBLCK	RDEFIL	PUTSYM
		PUTSEG	PUTKVV	PRTSYM	PRTKJ	PAGPLT	OPNFIL	NTRPLU	NTRPLT
		NTGRAN	NERFLD	MOVFIL	MAIN	LUODRV	LOOSYM	LODDRV	JNCSUM
		IBITCK	GNDREF	GETSYM	GETSEG	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDDRV	FARFLD	FABLO4	EXCDRV	ERROR	EFGMAT	DMPDRV
		DECOMP	CONVRT	CONJUG	CNVAMP	CLSFIL	CABC	BMIRHS	BLKDAT
		BANDIT	BACSUB	ASSIGN					

MOM Module

I N D E X

***** SUPER INDEX *****

WRITE	-	ZZXDUM	ZIJSET	ZIJDRV	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK
		SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SOLDRV
		SMATRX	SETDRV	SEJCON	SCALE3	SCALE2	RWFILS	RWCOMS	REBLCK
		RDEFIL	PUTSYM	PUTSEG	PUTKWV	PRTSYM	PRYKJ	PACPLY	OPNFIL
		NERFLD	NOVFIL	MAIN	LUDDRV	LODDRV	GETSYM	GETSEG	GETKWV
		GETGEO	GETARG	FNDREC	FLDDRV	FARFLD	FABLD4	EXCDRV	EFGMAT
		DMPDRV	DECOMP	CNVAMP	CABC	BANDIT	BACSUB	ASSIGN	
WRTCHK	-	TSKXQT	SYSCHK	STATFN	SOLDRV	ERROR			
WRTFIL	-	WRTCHK	SOLDRV	RWFILS	RWCOMS	PUTSYM	PRTSYM	DECOMP	
WRTTSK	-	PRTSYM							
WYRPAT	-	NTRPLU							
X	-	ZINT	PAGPLT	FLDDRV					
XC	-	SPMDRV							
XD	-	NERFLD							
XI	-	ZIJSET	WYRPAT	SEJCON					
XIJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU			
XJ	-	ZIJSET	WYRPAT	SEJCON					
XJSAVE	-	WYRPAT							
XMAX	-	SCALE3	SCALE2	PAGPLT					
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMIN	-	SCALE3	SCALE2	PAGPLT					
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XOB	-	NERFLD							
XP	-	PAGPLT							
XR	-	SPMDRV							
XS	-	SPMDRV							
XSS	-	WYRPAT							
XVAL	-	PAGPLT							
XV	-	SPMDRV	FLDDRV						
XWORDS	-	WRTFIL	RDEFIL						
XX1	-	PUTSEG							
XYMAG	-	ZIJSET	NERFLD						
X1	-	PUTSEG							
X2	-	PUTSEG							
X3	-	PUTSEG							
Y	-	ZINT	PAGPLT	FLDDRV					
YC	-	SPMDRV							
YD	-	NERFLD							
YI	-	ZIJSET	WYRPAT	SEJCON					
YIJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU			
YJ	-	ZIJSET	WYRPAT	SEJCON					
YJSAVE	-	WYRPAT							
YMAX	-	PAGPLT							
YMAXP	-	PAGPLT							
YMIN	-	PAGPLT							
YMINP	-	PAGPLT							
YOB	-	NERFLD							
YP	-	PAGPLT							

MOM Module

I N D E X

***** SUPER INDEX *****

YR	-	SPWDRV						
YS	-	SPWDRV						
YSS	-	WYRPAT						
YSSTAT	-	TSKXQT						
YVAL	-	PAGPLT						
YU	-	SPWDRV	FLDDRV					
Y1	-	PUTSEG						
Y2	-	PUTSEG						
Y3	-	PUTSEG						
Z	-	SYMMOD	SOLDRV	ROMPNT	REBLCK	LOOSYM	FLDDRV	CONJUG
ZC	-	SPWDRV	LODDRV	CNVAMP				
ZCDRV	-	TSKXQT						
ZD	-	NERFLD	LODSYM					
ZDK	-	NTGRAN						
ZDMAX	-	LODSYM						
ZDSQ	-	LODSYM						
ZD1	-	TNHFLD	TNEFLD					
ZD2	-	TNHFLD	TNEFLD					
ZE	-	ROMBNT						
ZEND	-	ROMBNT						
ZERINV	-	DECOMP						
ZERO	-	ZIJSET	ZIJDRV	SYSCHK	SOLDRV	PUTKVV	PRISYM	PAGPLT
		GETGEO	FLDDRV	EXCDRV	DECOMP	CNVAMP	BLKDAT	LODDRV
ZI	-	ZIJSET	WYRPAT	SOLDRV	SEJCON	LODDRV		
ZIJ	-	ZIJSET	WYRPAT	UNHFLD	UNEFLD	NTRPLU		
ZIJDRV	-	TSKXQT						
ZIJSET	-	ZIJDRV						
ZIMP	-	LODDRV						
ZINT	-	LODDRV						
ZJ	-	ZIJSET	WYRPAT	SEJCON				
ZJSAVE	-	WYRPAT						
ZK	-	NTGRAN						
ZL	-	LODDRV						
ZLODSQ	-	SOLDRV						
ZM	-	LODDRV						
ZMAG	-	SOLDRV						
ZN	-	LODSYM	CNVAMP					
ZOB	-	NERFLD						
ZP	-	ZIJSET	TNHFLD	TNEFLD	ROMBNT	NTRPLT	NERFLD	LODDRV
ZPHS	-	SOLDRV						CNVAMP
ZPK	-	TNHFLD	TNEFLD	NTGRAN				
ZPSV	-	TNHFLD						
ZR	-	SPWDRV	SOLDRV	LODDRV				
ZRATI	-	ZIJSET	ZIJDRV	WYRPAT	UNHFLD	UNEFLD	TNHFLD	TNEFLD
		SPWDRV	SOLDRV	SMATRX	SEJCON	PUTKVV	PRISYM	NTRPLU
		NERFLD	LODDRV	JNCSUM	GNDREF	GETKVV	FLDDRV	FARFLD
		CNVAMP	CABC	BLKDAT				STRUP
			NERFLD	FARFLD				NTRPLT
ZRSIN	-	ZIJSET						EXCDRV
ZRSQRT	-	SPWDRV						
ZS	-	SPWDRV						

MOM Module

I N D E X

***** SUPER INDEX *****

ZSS	-	WYRPAT			
ZW	-	SPWDRV	FLDDRV		
ZZ	-	TNEFLD			
ZZXDUM	-	ZCDRV	TSKXQT	EXCDRV	OMPDV
ZZ3	-	PUTSEG			
Z1	-	PUTSEG			
Z2	-	PUTSEG			
Z3	-	PUTSEG			

4. OUTPUT Module

I N D E X

***** SUPER INDEX *****

SYMBOL		ROUTINES IN WHICH THE SYMBOL IS USED							
A	-	SCALE3	SCALE2						
ABS	-	SCALE3	SCALE2	PUTKVV	PAGPLT	GETGEO	FLDOUT	FLDDRV	
ADDOPR	-	DMPDRV							
ADEBG	-	RWCOMS							
AINI	-	PAGPLT							
AL	-	SCALE3	SCALE2						
ALOG10	-	SCALE3	SCALE2	PAGPLT	FLDOUT				
AMAX1	-	PAGPLT	FLDOUT	FLDDRV					
AMIN1	-	PAGPLT	FLDOUT						
AMPZJ	-	RWCOMS							
ANG	-	FLDOUT							
ARG	-	FLDOUT							
ARGCM	-	RWCOMS							
ASSIGN	-	WRTFIL	WRTCHK	TSKXQT	YSRIN	YSCHK	SYMUPD	SYMDEF	STRUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	MAIN	IDITCK	GETSYM	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV		
ATAN2	-	FLDDRV							
B	-	SCALE3	SCALE2						
C	-	DMPDRV							
CHKPNT	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCEBK	YSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKQAT	ASSIGN				
CHKWRT	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCEBK	YSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKQAT	ASSIGN				
CI	-	FLDDRV							
CINC	-	FLDOUT							
CLITE	-	PUTKVV	BLKQAT						
CLSFIL	-	WRTCHK	SYMDEF	STATFN	RWFILS	PUTSYM	OPNFIL	ERROR	DMPDRV
CHAG	-	DMPDRV							
CMPLX1	-	DMPDRV							
CMPLX2	-	DMPDRV							
CNSL10	-	WRTCHK							
COMPLY	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCEBK	YSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKQAT	ASSIGN				
COMSAV	-	YSCHK							
CONVRT	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	PUTSYM	PUTKVV	GETSYM	GETKVV
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV		
COP1	-	DMPDRV							
COP2	-	DMPDRV							
COS	-	FLDOUT							
CPFRWD	-	WRTFIL	WRTCHK	WLKQCK	TSKXQT	TRCEBK	YSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKQAT	ASSIGN				
CR	-	FLDDRV							
CSTM	-	RWCOMS							

PREVIOUS PAGE
IS BLANK

OUTPUT Module

I N D E X

***** SUPER INDEX *****

CV	-	FLDOUT							
CVAL	-	BLKDAT							
CX	-	BLKDAT							
DATIM	-	SYSRTN							
DBGPRY	-	WRTFIL	WRTCHK	WLK9CK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3
		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	OMPDV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
DBMIN	-	FLDOUT							
DCHR	-	PAGPLT							
DCINV	-	PAGPLT							
DEL	-	SCALE3	SCALE2						
DFDT	-	RWCOMS							
DGTORD	-	FLDOUT	FLDDRV	BLKDAT					
DIST	-	SCALE3	SCALE2						
DISTL	-	SCALE3							
DIVOPR	-	OMPDV							
DJ	-	SYSRTN							
DLINV	-	PAGPLT							
OLYN	-	PAGPLT							
OMPDV	-	TSKXQT							
DT	-	WRTCHK	TSKXQT	TICKEK	SYSCHK				
DX	-	PAGPLT							
DY	-	PAGPLT							
DYNAMR	-	FLDOUT							
ENAXSQ	-	FLDOUT							
EPH	-	FLDDRV							
EPSR	-	PUTKWV	GETKWV	BLKDAT					
ERROR	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	RDEFIL	PUTSYM	PUTKWV
		OPNFIL	MOVFIL	GETSYM	GETKWV	GETARG	FNDREC	FLDOUT	FLDDRV
		OMPDV							
ESOR	-	FLDDRV							
ET	-	SYSCHK							
ETA	-	BLKDAT							
ETH	-	FLDDRV							
ETIME	-	SYSCHK							
EX	-	FLDDRV							
EXOPR	-	OMPDV							
EY	-	FLDDRV							
EZ	-	FLDDRV							
FAR	-	FLDOUT							
FIRST	-	IBITCK							
FJ	-	STRUP	PUTKWV	GETKWV	FLDDRV	BLKDAT			
FLDCM	-	RWCOMS							
FLDDRV	-	TSKXQT							
FLDOUT	-	FLDDRV							
FLOAT	-	SYSRTN	SYSCHK	SCALE3	SCALE2	PAGPLT	GETKWV	GETARG	OMPDV
FLTARG	-	TSKXQT	SYMDEF	SET	RWFILS	OPNFIL	MAIN	GETGEO	GETARG

OUTPUT Module

I N D E X

***** SUPER INDEX *****

FLTINC	-	FLDDRV	DMPDRV	BLKDAT					
FLTLIT	-	SYSCHK							
		WRTCHK	TSKXQT	SYMUPD	SYNDEF	STRTUP	RWFILS	PUTSYM	PUTKVV
		OPNFIL	MAIN	GETSYM	GETKVV	GETKWD	GETGEO	GETARG	FNDREC
		FLDOUT	FLDDRV	DMPDRV	CONVRT	BLKDAT			
FLTSYM	-	SYNDEF	PUTSYM	GETSYM	BLKDAT				
FM1	-	SCALE3	SCALE2						
FM2	-	SCALE3	SCALE2						
FM	-	SCALE3	SCALE2						
FNDREC	-	PUTSYM	GETSYM						
FRFLD	-	FLDDRV							
FROMHZ	-	STRTUP	PUTKVV	GETKVV					
FSTCHK	-	WRTCHK							
GEODT	-	RWCOMS							
GETARG	-	TSKXQT	GETGEO	FLDDRV					
GETGEO	-	TSKXQT							
GETKVV	-	DMPDRV							
GETSEG	-	GETGEO							
GETSYM	-	WRTCHK	SYNDEF	STRTUP	PUTSYM	GETARG	FLDOUT	FLDDRV	DMPDRV
GTDDT	-	RWCOMS							
HEAD	-	FLDOUT							
HI	-	SHELL							
I	-	SYSRTN	STRTUP	STATFN	SHELL	SET	SCALE3	SCALE2	RWFILS
		RWCOMS	PUTSYM	PAGPLT	IBITCK	GETSYM	GETKWD	GETGEO	FNDREC
		FLDOUT	FLDDRV	ERROR	CONVRT	BLKDAT			
IABS	-	TSKXQT	PAGPLT	OPNFIL	GETARG	DMPDRV			
IAXIS	-	BLKDAT							
IBAND	-	PUTSYM	GETSYM	FNDREC					
IBIT	-	IBITCK							
IBITA	-	FLDDRV							
IBITCK	-	SYNDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	DMPDRV	
IBITR	-	DMPDRV							
IBITS	-	TSKXQT	SYNDEF						
IBIT1	-	SYNDEF	DMPDRV						
IBIT2	-	DMPDRV							
IBLANK	-	FLDDRV	BLKDAT						
IBLK	-	GETGEO	FLDDRV						
IBLKK	-	GETGEO							
IBLKL	-	WLKDCX							
IC	-	SYSRTN	FLDDRV						
ICAR	-	CONVRT							
ICKPT	-	STRTUP							
ICKFIL	-	WRTCHK							
ICKLOP	-	STRTUP							
ICOLA	-	FLDDRV							
ICOLMN	-	FLDDRV							
ICOL1	-	FLDDRV							
ICOM	-	RWCOMS							
ICOMMA	-	BLKDAT							
ICOMSV	-	RWCOMS							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

ICORDT	-	FLDDRV							
ICOST	-	FLDDRV							
ICTYPE	-	FLDDRV							
ICYTAG	-	BLKDAT							
ID	-	CONVRT							
IDATE	-	SYSRTN							
IDAY	-	MAIN							
IDCSYS	-	BLKDAT							
IDEFIN	-	BLKDAT							
IDFINS	-	BLKDAT							
IDIG	-	BLKDAT							
IDOLAR	-	BLKDAT							
IDPLOT	-	FLDOUT							
IECTAG	-	BLKDAT							
IEOF	-	WRTCHK	STRTUP	RWCOMS					
IEQUAL	-	DMPDRV	BLKDAT						
IERRF	-	WRTFIL	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRTUP	RWFILS	RDEFIL
		PUTSYM	PUTKVV	OPNFIL	MOVFIL	GETSYM	GETKVV	FNDREC	FLDOUT
		FLDDRV	ERROR	DMPDRV	BLKDAT				
IFILE	-	SYMUPD	RWFILS	PUTSYM	MOVFIL	GETSYM	FNDREC	CLSFIL	
IFIX	-	SYSRTN	STATFN	PAGPLT	FLDDRV				
IFLDMT	-	FLDDRV							
IFLE	-	MOVFIL							
IFLNAM	-	RWCOMS							
IF1	-	PUTSYM							
IF2	-	PUTSYM							
IGFM	-	FLDDRV							
IGNORE	-	BLKDAT							
IJ	-	SET	PAGPLT	FLDDRV					
IJ	-	SYSRTN							
IJMOD	-	PUTSYM	GETSYM	FNDREC					
ILEFT	-	DMPDRV	BLKDAT						
ILOWER	-	PUTSYM	GETSYM	FNDREC					
ILP	-	DMPDRV							
ILIM	-	GETGEO							
IM	-	SHELL							
IMCHK	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT			
IMINUS	-	DMPDRV	BLKDAT						
IMIS	-	FLDDRV							
IM1	-	PAGPLT	IBITCK						
INAME	-	BLKDAT							
INCCNK	-	TSKXQT	SYSCHK						
INCORE	-	FLDDRV							
IND	-	CONVRT							
INDEX	-	GETKWD	GETGEO	FLDDRV					
INDEX1	-	FLDDRV							
INDEX2	-	FLDDRV							
INDEX3	-	FLDDRV							
INDXA	-	FLDDRV							
INDXB	-	FLDDRV							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

INDXG	-	TSKXQT							
INDXP1	-	RWCOMS							
INDXW8	-	WLK8CK	TRCEBK	RWCOMS	BLKDAT				
INEM	-	SYMDEF							
INR	-	FLDOUT							
INT	-	PUTKWV	GETARG						
INTARG	-	TSKXQT	SYMDEF	SET	RWFILS	OPNFIL	MAIN	GETGEO	GETARG
		FLDDRV	DMPDRV	BLKDAT					
INTBCD	-	CONVRT							
INTM	-	RWCOMS							
INTSYM	-	SYMDEF	PUTSYM	GETSYM	BLKDAT				
INTURD	-	CONVRT							
IOCKPT	-	WRTCHK	TSKXQT	RWCOMS	RDEFIL	PUTSYM	BLKDAT		
IOFILE	-	WRTFIL	WRTCHK	SYMDEF	STRTUP	RWCOMS	RDEFIL	PUTSYM	OPNFIL
		MOVFIL	GETSYM	ERROR	CLSFIL	BLKDAT			
IOFLS	-	RWCOMS							
IOPR	-	DMPDRV							
IORDER	-	PUTSYM	GETSYM	FNDREC					
IOSCRT	-	PUTSYM							
IOSCR1	-	SYMDEF	PUTSYM	BLKDAT					
IOSCR2	-	SYMDEF	PUTSYM	BLKDAT					
IOSTOR	-	SYMDEF	STRTUP						
IOSYMB	-	SYMDEF	BLKDAT						
IOTASK	-	BLKDAT							
IPAREN	-	DMPDRV							
IPASS	-	TSKXQT	SYMDEF	GETARG	FLDDRV	DMPDRV			
IPER	-	BLKDAT							
IPERF	-	PUTKWV							
IPLOT	-	FLDDRV							
IPLTAG	-	GETGEO	FLDDRV	BLKDAT					
IPLUS	-	DMPDRV	BLKDAT						
IPTBUF	-	BLKDAT							
IPTS	-	BLKDAT							
IPTTBL	-	BLKDAT							
IPUR2	-	IBITCK							
IP1	-	PAGPLT							
IP217	-	SET	GETGEO	BLKDAT					
IR	-	PUTSYM	GETSYM	FLDOUT					
IRC1	-	PUTSYM	GETSYM						
IRC2	-	PUTSYM	GETSYM						
IREAD	-	GETSYM							
IREC	-	PUTSYM	GETSYM	FNDREC					
IRECFS	-	PUTSYM							
IRECNO	-	PUTSYM							
IRECNW	-	PUTSYM	GETSYM						
IRECST	-	GETSYM							
IREC1	-	PUTSYM	GETSYM	FLDOUT					
IREC2	-	PUTSYM	GETSYM	FLDOUT					
IRIGHT	-	DMPDRV	BLKDAT						
IROMA	-	FLDDRV							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

IROWM1	-	PUTSYM	GETSYM						
IROW2	-	FLDDRV							
IRP	-	DMPDRV							
IRSAV	-	STRUP							
IRSTRT	-	STRUP	PUTSYM						
IR1	-	RWFILS	PUTSYM	GETSYM	FLDOUT				
IR2	-	PUTSYM	GETSYM	FLDOUT					
IS	-	PAGPLT							
ISBLNK	-	PAGPLT							
ISCALE	-	BLKDAT							
ISDASH	-	PAGPLT							
ISDOT	-	PAGPLT							
ISEG	-	GETGEO	BLKDAT						
ISSET	-	SET							
ISSETB	-	SET	BLKDAT						
ISGTBL	-	WRTCHK	TSKXQT	STRUP	RWFILS	GETGEO	FLDDRV	BLKDAT	
ISLASH	-	DMPDRV	BLKDAT						
ISOFF	-	WRTCHK	TSKXQT	STRUP	STATFN	RWFILS	RWCOMS	PUTSYM	MAIN
		GETSYM	GETARG	FNDREC	FLDOUT	ERROR	DMPDRV	CONVRT	CLSFIL
		BLKDAT							
ISON	-	WRTFIL	WRTCHK	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRUP	STATOT
		STATIN	STATFN	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	OPNFIL
		NOVFIL	MAIN	GETSYM	GETKVV	FNDREC	FLDOUT	FLDDRV	ERROR
		DMPDRV	BLKDAT						
ISPLUS	-	PAGPLT							
ISSTAR	-	PAGPLT							
ISSUE	-	MAIN							
ISTAR	-	DMPDRV	BLKDAT						
ISTAT	-	OPNFIL							
ISTOP	-	SET							
ISV	-	PUTSYM	GETSYM	FNDREC					
ISW	-	PUTSYM							
ISYM	-	PAGPLT							
ISYMBL	-	BLKDAT							
IT	-	PUTSYM	GETSYM						
ITAG	-	GETGEO							
ITAGID	-	GETGEO	FLDDRV	BLKDAT					
ITAG1	-	GETGEO							
ITASK	-	TSKXQT							
ITEMP	-	WRTCHK	SYMDEF	RWFILS	PUTSYM	NOVFIL	MAIN	FLDOUT	FLDDRV
		DMPDRV	BLKDAT						
ITEMS	-	STATFN	SHELL						
ITIME	-	SYSRTN	MAIN						
ITYPDE	-	BLKDAT							
ITYPE	-	PAGPLT							
ITYPPL	-	BLKDAT							
ITYPPI	-	BLKDAT							
ITYPIG	-	BLKDAT							
IU	-	FLDDRV							
IUPPER	-	PUTSYM	GETSYM	FNDREC					

OUTPUT Module

I N D E X

***** SUPER INDEX *****

IWBSAV -	RWCOMS								
IWORDS -	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	
	SYNDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	
	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKUV	PAGPLT	OPNFIL	
	MOVFIL	MAIN	IBITCK	GETSYM	GETKUV	GETKWD	GETGEO	GETARG	
	FNDREC	FLOUT	FLODRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT	
	ASSIGN								
IWRD -	IBITCK	FNDREC							
IWRD1 -	PUTSYM	GETSYM							
IWRTCK -	WRTCHK	PUTSYM							
IY -	PAGPLT								
IYRLOC -	GETGEO								
I1 -	TRCEBK	PAGPLT							
I2 -	TRCEBK	PAGPLT							
J -	SYSRTN	STRUP	STATFN	SHELL	SET	PUTSYM	PAGPLT	GETSYM	
	GETKWD	FNDREC	FLODRV						
JAXIS -	FLOUT								
JBIAS1 -	BLKDAT								
JBIAS2 -	BLKDAT								
JBIAS3 -	BLKDAT								
JBIT -	IBITCK								
JCBIAS -	BLKDAT								
JDIG -	BLKDAT								
JHOURS -	SYSRTN								
JMINIT -	SYSRTN								
JNCN -	RWCOMS								
JSV -	FLODRV								
JWRD -	IBITCK								
K -	SHELL	SET	FLOUT	FLODRV	CONVRT				
KBAND -	PUTSYM	GETSYM	FNDREC						
KBBAND -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBBITS -	BLKDAT								
KBCPLX -	SYNDEF	RWFILS	PUTSYM	GETSYM	FNDREC	DMPDRV	BLKDAT		
KBDPRE -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBFFLD -	FLOUT	FLODRV	BLKDAT						
KBFULL -	BLKDAT								
KBGEOM -	TSKXQT	RWFILS	FLOUT	BLKDAT					
KBINTP -	BLKDAT								
KBLEFT -	BLKDAT								
KBLOAD -	BLKDAT								
KBLWRT -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBNFLD -	FLOUT	FLODRV	BLKDAT						
KBORDR -	PUTSYM	GETSYM	FNDREC	BLKDAT					
KBPVIT -	BLKDAT								
KBREAL -	TSKXQT	FLODRV	DMPDRV	BLKDAT					
KBSNGL -	BLKDAT								
KBSOLN -	FLOUT	BLKDAT							
KBSRCE -	FLOUT	BLKDAT							
KBSYP -	BLKDAT								
KBSYPY -	BLKDAT								

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KBTEXT	-	BLKDAT							
KBUPRT	-	PUTSYM	GETSYM	FNDREC	BLKDAT				
KBZIPP	-	BLKDAT							
KCHKPT	-	BLKDAT							
KCODE	-	STRTUP							
KGEOP	-	RWFILS							
KIND	-	FLDOUT							
KINPUT	-	BLKDAT							
KJFLD	-	STRTUP	SET	FLDDRV	BLKDAT				
KJGTO	-	STRTUP	SET	FLDDRV	BLKDAT				
KJINT	-	SET	BLKDAT						
KJMON	-	STRTUP	SET	FLDDRV	BLKDAT				
KLINK	-	PUTSYM	GETSYM	FNDREC					
KLM	-	SYMUPD							
KOL	-	SYMUPD							
KOLAST	-	SYMUPD	SYMDEF	STRTUP	PUTSYM	FNDREC	BLKDAT		
KOLBIT	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV
		DMPDRV	BLKDAT						
KOLCNT	-	TSKXQT	BLKDAT						
KOLCOD	-	GETARG	DMPDRV	BLKDAT					
KOLCOL	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	GETGEO	FLDOUT	DMPDRV	BLKDAT
KOLFST	-	SYMUPD	SYMDEF	STRTUP	PUTSYM	GETSYM	FNDREC	BLKDAT	
KOLLAL	-	BLKDAT							
KOLLNK	-	SYMUPD	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV	BLKDAT	
KOLLOC	-	SYMUPD	SYMDEF	STRTUP	RWFILS	PUTSYM	GETSYM	FNDREC	DMPDRV
		BLKDAT							
KOLNAM	-	TSKXQT	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT			
KOLROW	-	SYMUPD	SYMDEF	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	FLDDRV
		DMPDRV	BLKDAT						
KOLTIM	-	TSKXQT	BLKDAT						
KOLTSK	-	TSKXQT	BLKDAT						
KOLVAL	-	GETARG	DMPDRV	BLKDAT					
KOUNT	-	TSKXQT							
KOUTPT	-	BLKDAT							
KRSTRT	-	BLKDAT							
KSYMDF	-	BLKDAT							
KSYMP	-	PUTKVV							
KW	-	SET	PUTKVV	GETKVV					
KWA	-	FLDDRV							
KWABS	-	BLKDAT							
KWARG	-	BLKDAT							
KWAXIS	-	BLKDAT							
KWAND	-	BLKDAT							
KWBCRE	-	BLKDAT							
KWBCSB	-	BLKDAT							
KWBNDW	-	BLKDAT							
KWC	-	BLKDAT							
KWCD	-	BLKDAT							
KWCDP	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWCHKP	-	BLKDAT		
KWCLPS	-	BLKDAT		
KWCNJG	-	BLKDAT		
KWCNVG	-	BLKDAT		
KWCOND	-	PUTKWV	GETKWV	BLKDAT
KWCPNC	-	BLKDAT		
KWCPNM	-	BLKDAT		
KWCR	-	BLKDAT		
KWCS	-	BLKDAT		
KWCW	-	BLKDAT		
KWCY	-	BLKDAT		
KWC1	-	BLKDAT		
KWC2	-	BLKDAT		
KWD	-	BLKDAT		
KWDBUG	-	BLKDAT		
KWDC	-	BLKDAT		
KWDP	-	BLKDAT		
KWDR	-	BLKDAT		
KWDT	-	BLKDAT		
KWDW	-	BLKDAT		
KWDX	-	BLKDAT		
KWDY	-	BLKDAT		
KW0Z	-	BLKDAT		
KWEC	-	BLKDAT		
KWECC	-	BLKDAT		
KWED	-	BLKDAT		
KWEI	-	BLKDAT		
KWEND	-	BLKDAT		
KWEPSP	-	PUTKWV	GETKWV	BLKDAT
KWER	-	BLKDAT		
KWES	-	BLKDAT		
KWESRC	-	BLKDAT		
KWEU	-	BLKDAT		
KWFFLD	-	BLKDAT		
KWFLID	-	BLKDAT		
KWFMTF	-	BLKDAT		
KWFRQ	-	PUTKWV	GETKWV	BLKDAT
KWGMDT	-	BLKDAT		
KWGT0	-	BLKDAT		
KWILP	-	BLKDAT		
KWINPT	-	BLKDAT		
KWINV	-	BLKDAT		
KWIPE	-	BLKDAT		
KWIRE	-	BLKDAT		
KWIS	-	BLKDAT		
KWLAEI	-	BLKDAT		
KWLGLG	-	FL0OUT	BLKDAT	
KULGLN	-	FL0OUT	BLKDAT	
KWLGP0	-	FL0OUT	BLKDAT	
KWLMT	-	BLKDAT		

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWNLG	-	FLOUT	BLKDAT			
KWNLN	-	FLOUT	BLKDAT			
KWLNPO	-	FLOUT	BLKDAT			
KWLOOP	-	BLKDAT				
KWLU	-	BLKDAT				
KWLUD	-	BLKDAT				
KWMAX	-	GETKWD	BLKDAT			
KWMM	-	BLKDAT				
KWMODL	-	BLKDAT				
KWMXIT	-	BLKDAT				
KWN	-	BLKDAT				
KWNAME	-	PUTKWV	GETKWV	GETKWD	FLDDRV	BLKDAT
KWNFLD	-	BLKDAT				
KWNMFL	-	PUTKWV	GETKWV	BLKDAT		
KWNP	-	BLKDAT				
KWNR	-	BLKDAT				
KWOFF	-	TSKXQT	BLKDAT			
KWON	-	TSKXQT	BLKDAT			
KWOUTP	-	BLKDAT				
KWPART	-	BLKDAT				
KWPC	-	BLKDAT				
KWPD	-	BLKDAT				
KWPDOR	-	BLKDAT				
KWPHI	-	BLKDAT				
KWPIVT	-	BLKDAT				
KWPL	-	BLKDAT				
KWPLOT	-	BLKDAT				
KWPLSE	-	BLKDAT				
KWPR	-	BLKDAT				
KWPRE	-	BLKDAT				
KWPRGE	-	BLKDAT				
KWPRLC	-	BLKDAT				
KWPRNT	-	BLKDAT				
KWPSN	-	BLKDAT				
KWP1	-	BLKDAT				
KWP2	-	BLKDAT				
KWR	-	BLKDAT				
KWRC	-	BLKDAT				
KWRD	-	BLKDAT				
KWRDP	-	BLKDAT				
KWRDUC	-	BLKDAT				
KWREAD	-	BLKDAT				
KWREPL	-	BLKDAT				
KWRFLC	-	BLKDAT				
KWRITE	-	BLKDAT				
KWRR	-	BLKDAT				
KWRSTR	-	BLKDAT				
KWR1	-	BLKDAT				
KWR2	-	BLKDAT				
KWSC	-	BLKDAT				

OUTPUT Module

I N D E X

***** SUPER INDEX *****

KWSCDP	-	BLKDAT						
KWSEGS	-	BLKDAT						
KWSEQ	-	BLKDAT						
KWSET	-	BLKDAT						
KWSIZE	-	BLKDAT						
KWSMOF	-	BLKDAT						
KWSNCS	-	BLKDAT						
KWSOLV	-	BLKDAT						
KWSR	-	BLKDAT						
KWSRDP	-	BLKDAT						
KWSRLC	-	BLKDAT						
KWSTAT	-	TSKXQT	BLKDAT					
KWSTNT	-	BLKDAT						
KWSW	-	BLKDAT						
KWTAGS	-	BLKDAT						
KWTDOP	-	BLKDAT						
KWTHET	-	BLKDAT						
KWTIPE	-	PUTKWV	GETKWV	BLKDAT				
KWTRAC	-	TSKXQT	BLKDAT					
KWTRAN	-	BLKDAT						
KWTYPE	-	BLKDAT						
KWT1	-	BLKDAT						
KWT2	-	BLKDAT						
KWV	-	BLKDAT						
KWVALU	-	BLKDAT						
KWVS	-	BLKDAT						
KWVSRC	-	BLKDAT						
KWX	-	BLKDAT						
KWXPND	-	BLKDAT						
KWX1	-	BLKDAT						
KWX2	-	BLKDAT						
KWY1	-	BLKDAT						
KWY2	-	BLKDAT						
KWZ	-	BLKDAT						
KWZCDS	-	BLKDAT						
KWZGEN	-	BLKDAT						
KWZIMP	-	BLKDAT						
KWZLDS	-	BLKDAT						
KWZMAT	-	BLKDAT						
KWZ1	-	BLKDAT						
KWZ2	-	BLKDAT						
L	-	PAGPLT	FLDOUT	FLDDRV	ERROR	DMPODV		
LABEL	-	FLDOUT						
LASTI	-	PAGPLT						
LBL	-	FLDOUT						
LCALLR	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM
		PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKWV
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPODV
LALNM	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF
								STRTUP
								PUTKWV
								GETKWD
								BLKDAT
								STRTUP

OUTPUT Module

I N D E X

***** SUPER INDEX *****

		SET	SCALE3	SCALE2	RWFILS	RWCONS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LETR	-	BLKDAT							
LINDX	-	TSKXQT							
LINE	-	PAGPLT							
LINK	-	PUTSYM	GETSYM	FNDREC	FLDOUT				
LINKA	-	FLDDRV							
LITNMX	-	BLKDAT							
LITNUM	-	WRTCHK	TSKXQT	SYMUPD	SYMDEF	STRTUP	RWFILS	PUTSYM	PUTKVV
		OPNFIL	MAIN	GETSYM	GETKVV	GETYWD	GETGEO	GETARG	FNDREC
		FLDOUT	FLDDRV	DMPDRV	CONVRT	BLKDAT			
LITYP	-	GETARG	DMPDRV						
LITVAL	-	DMPDRV							
LNKBIT	-	FLDOUT							
LO	-	SHELL							
LOC	-	STATFN	SHELL	PUTSYM	GETSYM	FNDREC			
LOCARG	-	TSKXQT	GETARG	DMPDRV					
LOCEND	-	PUTSYM							
LOCFST	-	SYMDEF	PUTSYM	GETSYM	FNDREC				
LOCCEO	-	GETGEO							
LOCLIT	-	DMPDRV							
LOCLST	-	SYMDEF	PUTSYM	FNDREC					
LOCNOW	-	STRTUP	PUTSYM	GETSYM					
LOCNXT	-	TSKXQT							
LOCSTR	-	PUTSYM	GETSYM						
LOCTP1	-	TSKXQT							
LOCTSK	-	TSKXQT							
LOG	-	FLDOUT							
LOOP	-	FLDDRV							
LOOPMX	-	TSKXQT	BLKDAT						
LOOP1	-	FLDDRV							
LOOP2	-	FLDDRV							
LOOP3	-	FLDDRV							
LOPINR	-	FLDDRV							
LOPMID	-	FLDDRV							
LOPOUT	-	FLDDRV							
LOPSAV	-	FLDDRV							
LORDER	-	FLDDRV							
LPRPGE	-	PAGPLT							
LROUTN	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCONS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LRTNUM	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCONS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD
		GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT
LSAVE	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3

OUTPUT Module

I N D E X

***** SUPER INDEX *****

		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
LSTARG	-	ASSIGN							
LSTASK	-	TSKXQT							
LSTAT	-	BLKDAT							
		WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STARTUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV
		PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	BLKDAT	
LSTCHK	-	SYSCHK							
LSTCOL	-	LUSTAT	BLKDAT						
LSTCSY	-	BLKDAT							
LSTDAT	-	BLKDAT							
LSTFNC	-	BLKDAT							
LSTIMP	-	BLKDAT							
LSTINT	-	BLKDAT							
LSTIOD	-	BLKDAT							
LSTMOD	-	STARTUP	STATFN						
LSTSYS	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STARTUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKDAT	ASSIGN				
LSTTPF	-	TSKXQT	BLKDAT						
LSTWRD	-	PUTSYM	GETSYM						
LTRACE	-	TSKXQT	STATOT	STATIN	BLKDAT				
LUDEBUG	-	BLKDAT							
LUFIL	-	STARTUP	OPNFIL						
LUNIT	-	WRTFIL	RDEFIL						
LUPRNT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE9K	SYSCHK	SYMUPD	SYMDEF
		STARTUP	STATOT	STATIN	STATFN	SCALE3	SCALE2	RWFILS	RWCOMS
		RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL	MOVFIL	MAIN	GETSYM
		GETKVV	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT
		ASSIGN							
LUTASK	-	LUSTAT	BLKDAT						
LWRUPR	-	PUTSYM	GETSYM	FNDREC					
M	-	SHELL							
MACHIN	-	BLKDAT							
MANTSA	-	IBITCK	BLKDAT						
MASK	-	FLDDRV							
MATNAM	-	PUTSYM	GETSYM	FNDREC					
MATOP1	-	DMPDRV							
MATOP2	-	DMPDRV							
MAXBLK	-	TSKXQT	GETGEO						
MAXCDS	-	BLKDAT							
MAXCON	-	BLKDAT							
MAXCSY	-	BLKDAT							
MAXCYL	-	BLKDAT							
MAXDEF	-	BLKDAT							
MAXECP	-	BLKDAT							
MAXPLT	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

MAXPTS	-	BLKDAT							
MAXRAD	-	BLKDAT							
MAXSEG	-	TSKXQT	BLKDAT						
MAXSTR	-	SYMDEF	PUTSYM	BLKDAT					
MAXWRD	-	PUTSYM	GETSYM						
MAXO	-	SYMDEF	PUTSYM						
MDLE	-	RWCOMS							
MINO	-	PUTSYM	GETSYM	FNDREC					
MKMX	-	BLKDAT							
MN	-	FNDREC							
MOD	-	STRTUP	PAGPLT	IBITCK	GETGEO				
MODCHK	-	WRTCHK	STRTUP	STATFN	PUTSYM	BLKDAT			
MODLST	-	STRTUP	STATFN	BLKDAT					
MODMAX	-	BLKDAT							
MODNAM	-	WRTCHK	STRTUP	STATFN	MAIN				
MODNOW	-	STRTUP							
MORE	-	PUTSYM	GETSYM	FNDREC					
MOVE	-	MOVFIL							
MOVFIL	-	STRTUP	PUTSYM	GETSYM					
MOVWRD	-	PUTSYM	MOVFIL						
MSAVE	-	STATOT	STATIN						
MULOPR	-	DMPDRV							
MXANCT	-	BLKDAT							
MXARGS	-	TSKXQT	BLKDAT						
MXARGT	-	BLKDAT							
MXCFG	-	BLKDAT							
MXCYAR	-	BLKDAT							
MXDPT	-	BLKDAT							
MXECAR	-	BLKDAT							
MXEFP	-	BLKDAT							
MXEXPD	-	BLKDAT							
MXFPCT	-	BLKDAT							
MXINCT	-	BLKDAT							
MXMAT	-	BLKDAT							
MXPLAR	-	BLKDAT							
MXSUBS	-	BLKDAT	ASSIGN						
MXSYMB	-	BLKDAT							
MXWALK	-	WLK8CK	RWCOMS	BLKDAT					
M1	-	SCALE3	SCALE2						
M2	-	SCALE3	SCALE2						
N	-	TSKXQT	SYMUPD	SYMDEF	STATOT	STATIN	SCALE3	SCALE2	PUTSYM
	-	PAGPLT	MOVFIL	LUSTAT	GETARG	FLDOUT	FLDDRV	DMPDRV	
NA	-	SYMUPD	PUTSYM	GETSYM	FNDREC				
NAL	-	SCALE3	SCALE2						
NAM	-	FLDDRV							
NAMCOM	-	RWCOMS							
NAMDAT	-	TSKXQT							
NAMDEF	-	BLKDAT							
NAME	-	SYMDEF	STRTUP	STATOT	STATIN	RWFILS	RWCOMS	PUTKWV	GETKWV
	-	GETKWV	FLDDRV						

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NAMEA	-	FLDDRV							
NAMEB	-	FLDDRV							
NAMEYR	-	GETGEO							
NAMFIL	-	DMPDRV							
NAMFLD	-	FLDOUT							
NAMGEO	-	TSKXQT	GETGEO						
NAMMOD	-	MAIN							
NAMOLD	-	RWCOMS							
NAMOPR	-	DMPDRV							
NAMOP1	-	DMPDRV							
NAMOP2	-	DMPDRV							
NAMPRT	-	GETSYM							
NAMPTS	-	BLKDAT							
NAMRTN	-	WLKBCK	TRCEBK	RWCOMS	MAIN	BLKDAT			
NAMSAV	-	PUTSYM	GETSYM	FNDREC					
NAMSB	-	WLKBCK	ASSIGN						
NAMSEG	-	TSKXQT	GETGEO	BLKDAT					
NAMSUB	-	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	SYNDEF
		STARTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3	SCALE2
		RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	MOVFIL
		MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG	FNDREC
		FLDOUT	FLDDRV	ERROR	DMPDRV	CLSFIL	ASSIGN		
NAMSYM	-	SYMUPD	GETARG	DMPDRV					
NAMTSK	-	TSKXQT	BLKDAT						
NARGPX	-	BLKDAT							
NARGTB	-	TSKXQT	BLKDAT						
NARITH	-	BLKDAT							
NBITA	-	FLDDRV							
NBITS	-	IBITCK	FLDOUT						
NBITWD	-	RWFILS	PUTSYM	GETSYM	FNDREC				
NBLANK	-	BLKDAT							
NBLK	-	FLDOUT							
NBS	-	CONVRT							
NBUFS	-	MOVFIL							
NBYTES	-	CONVRT	BLKDAT						
NBYTSZ	-	CONVRT	BLKDAT						
NCARD	-	LUSTAT	BLKDAT						
NCARDS	-	BLKDAT							
NCCLAS	-	BLKDAT							
NCHAR	-	CONVRT	BLKDAT						
NCHLIN	-	PAGPLT							
NCODE	-	GETKWD	BLKDAT						
NCODES	-	TSKXQT	PUTKWV	GETKWV	GETKWD	GETGEO	FLDDRV	BLKDAT	
NCOL	-	BLKDAT							
NCOLS	-	SYNDEF							
NCOL1	-	SYNDEF	DMPDRV						
NCOL2	-	DMPDRV							
NCOM	-	BLKDAT							
NCOMCH	-	BLKDAT							
NCOMMA	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NCOMS2	-	RWCOMS							
NCON	-	BLKDAT							
NCONCH	-	BLKDAT							
NCON1	-	BLKDAT							
NCORN	-	GETGEO							
NOATBL	-	TSKXQT	SYMUPD	SYMDEF	STRTUP	RWFILS	PUTSYM	GETSYM	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	BLKDAT		
NDATMX	-	SYMDEF	BLKDAT						
NDEBUF	-	BLKDAT							
NDF	-	RWFILS							
NDFALT	-	GETARG							
NDFILE	-	WRTFIL	SYMUPD	RWFILS	RDEFIL	PUTSYM	LUSTAT	FNDREC	CLSFIL
		BLKDAT							
NDIG	-	BLKDAT							
NDIGIT	-	BLKDAT							
NDTASK	-	BLKDAT							
NDX	-	TSKXQT	PUTKVV	GETKVV	FLDDRV				
NDXARG	-	GETARG	DMPDRV						
NDXBLK	-	GETGEO							
NDXFLD	-	FLDOUT							
NDXINR	-	FLDDRV							
NDXKWD	-	PUTKVV	GETKVV						
NDXKYW	-	DMPDRV							
NDXMID	-	FLDDRV							
NDXOUT	-	FLDDRV							
NE	-	FLDOUT							
NEAR	-	FLDOUT							
NEED	-	SYMDEF	FLDOUT						
NENDCD	-	BLKDAT							
NEOFLG	-	BLKDAT							
NERCL1	-	BLKDAT							
NERCOD	-	GETKWD	BLKDAT						
NERCON	-	BLKDAT							
NERDPN	-	BLKDAT							
NEREOF	-	BLKDAT							
NEREXD	-	BLKDAT							
NEREXF	-	BLKDAT							
NEREXP	-	BLKDAT							
NERINT	-	BLKDAT							
NERNAM	-	BLKDAT							
NEWDAT	-	SYMUPD							
NEWNAM	-	SYMUPD							
NEWSYM	-	SYMDEF							
NEXTI	-	PAGPLT							
NFILE	-	RWFILS							
NFILES	-	SYMDEF	RWCOMS	PUTKVV	GETKVV	ERROR	BLKDAT		
NFINCD	-	BLKDAT							
NFRAC	-	BLKDAT							
NG	-	FLDOUT							
NHMDWD	-	FLDOUT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NI	-	PAGPLT							
NILEGL	-	BLKDAT							
NINC	-	FLDDRV							
NINT	-	BLKDAT							
NITEPS	-	STATFN	SHELL						
NLETR	-	BLKDAT							
NLOOPS	-	TSKXQT	BLKDAT						
NHMAPS	-	BLKDAT							
NMOD	-	PAGPLT							
NHSPTR	-	BLKDAT							
NMTMS	-	BLKDAT							
NHWRDS	-	RWCOMS							
NOEND	-	BLKDAT							
NOGOF6	-	TSKXQT	RWCOMS	MAIN	FLDDRV	DMPDRV	BLKDAT		
NOP	-	TSKXQT							
NOPCOD	-	TSKXQT	GETARG	FLDOUT	FLDDRV	DMPDRV	BLKDAT		
NOPNAM	-	CONVRT							
NOSTAT	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3
		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKWD	GETGEO	GETARG	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
NOTASK	-	BLKDAT							
NP	-	SCALE3	SCALE2	PUTSYM	PAGPLT	FLDOUT	FLDDRV		
NPAREN	-	BLKDAT							
NPATCH	-	GETGEO	BLKDAT						
NPASV	-	SYMDEF							
NPDATA	-	SYMUPD	SYMDEF	STRUP	RWFILS	PUTSYM	GETSYM	GETARG	FNDREC
		FLDOUT	FLDDRV	DMPDRV					
NPEARQ	-	BLKDAT							
NPEDPC	-	BLKDAT							
NPEDPL	-	BLKDAT							
NPEDRM	-	BLKDAT							
NPEIFO	-	BLKDAT							
NPEKUD	-	BLKDAT							
NPELAB	-	BLKDAT							
NPELIT	-	BLKDAT							
NPELML	-	BLKDAT							
NPELOO	-	BLKDAT							
NPELCP	-	BLKDAT							
NPELST	-	BLKDAT							
NPENOI	-	BLKDAT							
NPENOM	-	BLKDAT							
NPENRG	-	BLKDAT							
NPENTK	-	BLKDAT							
NPENUM	-	BLKDAT							
NPERGE	-	BLKDAT							
NPEROD	-	BLKDAT							
NPESCH	-	BLKDAT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NPESEX	-	BLKDAT						
NPESYM	-	BLKDAT						
NPETSK	-	BLKDAT						
NPI	-	FLDDRV						
NPIC	-	FLDDRV						
NPL	-	FLDOUT						
NPRBUF	-	RWFILS	MOVFIL					
NPRC	-	FLDDRV						
NPRDEF	-	BLKDAT						
NPRELM	-	RWFILS	PUTSYM	GETSYM	FNDREC			
NPRFPT	-	FLDOUT	FLDDRV					
NPRHDR	-	FLDOUT						
NPRPRT	-	PUTSYM	GETSYM	FNDREC				
NPRPT	-	BLKDAT						
NPRREC	-	TSKXQT	RWFILS	PUTSYM	GETSYM	FNDREC	FLDOUT	
NPRSEG	-	TSKXQT	BLKDAT					
NPRSER	-	BLKDAT						
NPSAV	-	DMPDRV						
NPTASK	-	TSKXQT						
NPTBUF	-	BLKDAT						
NR	-	FLDOUT						
NREAD	-	WRTCHK	STARTUP	RWFILS	RWCOMS			
NRECS	-	RWFILS	PUTSYM					
NRNAMS	-	STATFN	BLKDAT	ASSIGN				
NROWS	-	SYMDEF						
NROW1	-	SYMDEF	DMPDRV					
NROW2	-	DMPDRV						
NRSUBS	-	STATFN	RWCOMS	BLKDAT				
NRTIMS	-	STATIN	STATFN	RWCOMS	BLKDAT			
NS	-	SYMUPD	SYMDEF	RWFILS	GETGEO	FLDOUT		
NSAV	-	FLDDRV						
NSCNER	-	GETKWD	BLKDAT					
NSH	-	CONVRT						
NSHFTS	-	BLKDAT						
NSYMBL	-	SYMUPD	SYMDEF					
NT	-	TSKXQT						
NTAB	-	GETKWD	BLKDAT					
NTALPH	-	BLKDAT						
NTASK	-	BLKDAT						
NTASKS	-	BLKDAT						
NTDM	-	BLKDAT						
NTDPF1	-	BLKDAT						
NTDPF2	-	BLKDAT						
NTEMPS	-	RWFILS	PUTSYM	MOVFIL	FLDOUT	BLKDAT		
NTEND	-	BLKDAT						
NTERR	-	BLKDAT						
NTFLPT	-	GETARG	FLDDRV	DMPDRV	BLKDAT			
NTINT	-	TSKXQT	GETARG	DMPDRV	BLKDAT			
NTKEYW	-	GETKWD	DMPDRV	BLKDAT				
NTPARG	-	GETARG						

OUTPUT Module

INDEX

***** SUPER INDEX *****

NTPGTD	-	BLKDAT							
NTSFMT	-	BLKDAT							
NTSKMX	-	BLKDAT							
NTSKT8	-	TSKXQT	BLKDAT						
NTSYMB	-	GETGEO	GETARG	DMPDRV	BLKDAT				
NTTASK	-	BLKDAT							
NT1	-	FLOUT							
NT1SAV	-	FLOUT							
NT2	-	FLOUT							
NT2SAV	-	FLOUT							
NUMARG	-	TSKXQT	SET	FLODRV	DMPDRV	BLKDAT			
NUMCHK	-	WRTCHK	BLKDAT						
NUMCOL	-	PUTSYM							
NUMCOM	-	RWCOMS							
NUMCVL	-	GETGEO	BLKDAT						
NUMECP	-	GETGEO	BLKDAT						
NUMGTD	-	GETGEO	BLKDAT						
NUMLFT	-	RDEFIL							
NUMPLT	-	GETGEO	BLKDAT						
NUMPTS	-	FLOUT	BLKDAT						
NUMREC	-	RWFILS	FLOUT						
NUMROW	-	PUTSYM	GETSYM	FNDREC					
NUMSB	-	STATOT	STATIN	ASSIGN					
NUMSEG	-	GETGEO	BLKDAT						
NUMSUB	-	WRTFIL	WRTCHK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD	SYMDEF
		STRTUP	STATOT	STATIN	SMELL	SET	SCALE3	SCALE2	
		RWFILS	RWCOMS	RDEFIL	PUTKVV	PAGPLY	OPNFIL	MOVFIL	
		MAIN	IBITCK	GETSYM	GETKWD	GETGEO	GETARG	FNDREC	
		FLOUT	FLODRV	ERROR	DMPDRV	ASSIGN			
NUMSYM	-	GETARG							
NUMTSK	-	TSKXQT	OPNFIL						
NUMWIP	-	BLKDAT							
NUMWRD	-	SYMDEF							
NVAL	-	TSKXQT	STRTUP	RWFILS	PUTKVV	MAIN	GETKVV	GETKWD	FLOUT
		DMPDRV	BLKDAT						
NVALHX	-	GETKWD	BLKDAT						
NW	-	CONVRT							
NWDSIZ	-	CONVRT	BLKDAT						
NWIRE	-	GETGEO	BLKDAT						
NWORD	-	CONVRT							
NWORDS	-	WRTFIL	RDEFIL						
NX	-	SCALE3	SCALE2						
NXINT	-	PAGPLY							
NXTARG	-	FLODRV	DMPDRV						
NXTSYM	-	SYMDEF	BLKDAT						
NXTTSK	-	TSKXQT							
NXTWRD	-	CONVRT							
NXVAL	-	PAGPLY							
NYINT	-	PAGPLY							
NYV	-	PAGPLY							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

NYVAL	-	PAGPLT							
NO	-	GETSYM							
N1	-	PUTSYM	FLDOUT						
N2	-	PUTSYM	FLDOUT						
OPNFIL	-	WRTCHK	SYMDEF	STATFN	RWFILS	PUTSYM			
PAGPLT	-	FLDOUT							
PARTB	-	RWCOMS							
PCNT	-	STATFN							
PHS	-	FLDOUT							
PHSMAG	-	FLDDRV							
PTIME	-	TICKEK	STATOT	STATIN					
PTTBL	-	BLKDAT							
PUTKVV	-	DMPDRV							
PUTSYM	-	WRTCHK	STRUP	RWFILS	FLDDRV	DMPDRV			
PMR	-	FLDOUT							
PMRDWN	-	FLDOUT							
PMRMAX	-	FLDOUT	FLDDRV						
PMRRAT	-	FLDOUT							
PMRSQ	-	FLDOUT							
R	-	DMPDRV							
RAD	-	FLDOUT	BLKDAT						
RADMAX	-	FLDOUT							
RDEFIL	-	STRUP	RWFILS	RWCOMS	PUTSYM	MOVFIL	GETSYM		
RDTODG	-	FLDDRV							
READ	-	RWCOMS	RDEFIL	LUSTAT					
REFN	-	STRUP	PUTKVV	GETKVV	FLDDRV	BLKDAT			
REFV	-	STRUP	PUTKVV	GETKVV	FLDDRV	BLKDAT			
RETURN	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	TICKEK	SYSRTN	SYSCHK
		SYMUPD	SYMDEF	STRUP	STATOT	STATIN	STATFN	SHELL	SET
		SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKVV	PAGPLT
		OPNFIL	MOVFIL	LUSTAT	IBITCK	GETSYM	GETKVV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL
		ASSIGN							
RITEMS	-	STATFN							
ROP1	-	DMPDRV							
ROP2	-	DMPDRV							
RSTART	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE9K	SYSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKDAT	ASSIGN				
RSTRTA	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STRUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKVV	OPNFIL	MAIN	GETSYM
		GETKVV	ERROR	BLKDAT	ASSIGN				
RSUMS	-	STATOT	STATIN	STATFN	RWCOMS	BLKDAT			
RTINS	-	STATOT	STATIN	BLKDAT					
RWCOMS	-	WRTCHK	STRUP						
RWFILS	-	WRTCHK	STRUP						
SCALE	-	BLKDAT							
SCALE5	-	BLKDAT							
SCALE2	-	PAGPLT							
SCALE3	-	PAGPLT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

SCNPR	-	RWCOMS							
SEGTBL	-	WRTCHK	TSKXQT	STRTUP	RWFILS	GETGEO	FLDDRV	BLKDAT	
SET	-	TSKXQT							
SGMNT	-	RWCOMS							
SHELL	-	STATFN							
SIGMA	-	PUTKWV	GETKWV	BLKDAT					
SIN	-	FLDOUT							
SMSTR	-	RWCOMS							
SORT	-	SET	GETGEO	FLDOUT	FLDDRV	BLKDAT			
SQRT	-	FLDOUT	FLDDRV						
SRAY	-	WRTCHK							
STATFN	-	MAIN	ERROR						
STATIN	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV
		PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV		
STATOT	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV
		PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV		
STOP	-	WRTFIL	WLBCK	TSKXQT	SYSCHK	SYMUPD	SYMDEF	STRTUP	RWFILS
		RDEFIL	PUTSYM	PUTKWV	OPNFIL	MOVFIL	MAIN	GETSYM	GETKWV
		GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV			
STRTUP	-	MAIN							
SUBOPR	-	DMPDRV							
SYMDEF	-	TSKXQT	PUTSYM	FLDDRV	DMPDRV				
SYMUPD	-	TSKXQT	FLDDRV						
SYSCHK	-	TSKXQT							
SYSFL	-	RWCOMS							
SYSLSI	-	WRTFIL	WRTCHK	WLBCK	TSKXQT	TRCE3K	SYSCHK	SYMDEF	STRTUP
		STATFN	RWFILS	RDEFIL	PUTSYM	PUTKWV	OPNFIL	MAIN	GETSYM
		GETKWV	ERROR	BLKDAT	ASSIGN				
SYSRTN	-	MAIN							
T	-	WRTCHK	TICKEK						
TEMP	-	WRTCHK	SYMDEF	RWFILS	RWCOMS	PUTSYM	MOVFIL	MAIN	FLDOUT
		FLDDRV	DMPDRV	BLKDAT					
		WRTCHK	TSKXQT	SYSCHK					
TICKEK	-	WRTCHK							
TIMCHK	-	SYSCHK							
TIME	-	SYSRTN	MAIN						
TIMIN	-	STATIN							
TIMOUT	-	STATOT							
TIMTGO	-	SYSCHK	PUTKWV	GETKWV	BLKDAT				
TLAST	-	TICKEK	SYSCHK						
TMPBUF	-	PUTSYM	GETSYM						
TNOW	-	TSKXQT	SYSCHK						
TOTAL	-	STATFN							
TPCEPI	-	BLKDAT							
TRACE	-	MAIN							
TRACST	-	WRTFIL	WRTCHK	WLBCK	TSKXQT	TRCE3K	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	STATOT	STATIN	STATFN	SHELL	SET	SCALE3

OUTPUT Module

I N D E X

***** SUPER INDEX *****

		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
TRCEBK	-	WLKBCK	ERROR						
TS	-	TICHEK							
TSKXQT	-	MAIN							
TSUMS	-	BLKDAT							
TTINS	-	BLKDAT							
TWOPI	-	PUTKWV	BLKDAT						
U	-	FLDDRV							
UPDBLK	-	WRTCHK	TSKXQT	STRTUP	RWFILS	GETGEO	FLDDRV	BLKDAT	
VAL	-	TSKXQT	STRTUP	RWFILS	PUTKWV	MAIN	GETKWV	GETKWD	FLDOUT
		DMPDRV	BLKDAT						
VALUKV	-	PUTKWV	GETKWV						
VINT	-	SCALE3	SCALE2						
WAVLGH	-	PUTKWV							
WAVNUM	-	PUTKWV							
WLKBCK	-	WRTFIL	WRTCHK	TSKXQT	SYSRTN	SYSCHK	SYMUPD	SYMDEF	STRTUP
		SET	SCALE3	SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV
		PAGPLT	OPNFIL	MOVFIL	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO
		GETARG	FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV		
WORDS	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSRTN	SYSCHK	SYMUPD
		SYMDEF	STRTUP	STATOT	STATFN	STATFN	SHELL	SET	SCALE3
		SCALE2	RWFILS	RWCOMS	RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL
		MOVFIL	MAIN	IBITCK	GETSYM	GETKWV	GETKWD	GETGEO	GETARG
		FNDREC	FLDOUT	FLDDRV	ERROR	DMPDRV	CONVRT	CLSFIL	BLKDAT
		ASSIGN							
WRITE	-	WRTFIL	WRTCHK	WLKBCK	TSKXQT	TRCEBK	SYSCHK	SYMUPD	SYMDEF
		STRTUP	STATOT	STATFN	STATFN	SCALE3	SCALE2	RWFILS	RWCOMS
		RDEFIL	PUTSYM	PUTKWV	PAGPLT	OPNFIL	MOVFIL	MAIN	GETSYM
		GETKWV	GETGEO	GETARG	FNDREC	FLDOUT	FLDDRV	DMPDRV	ASSIGN
		TSKXQT	SYSCHK	STATFN	ERROR				
WRTCHK	-	WRTCHK	RWFILS	RWCOMS	PUTSYM				
WRTFIL	-	PAGPLT	FLDOUT						
X	-	SCALE3	SCALE2	PAGPLT	FLDOUT				
XMAX	-	SCALE3							
XMAXL	-	SCALE3							
XMAXP	-	SCALE3	SCALE2	PAGPLT					
XMIN	-	SCALE3	SCALE2	PAGPLT	FLDOUT				
XMINL	-	SCALE3							
XMINP	-	SCALE3	SCALE2	PAGPLT					
XP	-	PAGPLT							
XVAL	-	PAGPLT							
XWORDS	-	WRTFIL	RDEFIL						
Y	-	PAGPLT	FLDOUT						
YMAX	-	PAGPLT							
YMAXP	-	PAGPLT							
YMIN	-	PAGPLT							
YMINP	-	PAGPLT							
YP	-	PAGPLT							

OUTPUT Module

I N D E X

***** SUPER INDEX *****

YSSTAT	-	TSKXQT					
YVAL	-	PAGPLT					
ZERO	-	SYSCHK	PUTKWV	PAGPLT	GETGEO	FLDOUT	FLDDRV
ZRATI	-	STRTUP	PUTKWV	GETKWV	FLDDRV	BLKDAT	
ZZXDUM	-	DMPDRV					

CHAPTER III

COMDECK VARIABLES GLOSSARY

The COMDECK variables glossary contains the listings of all common decks used in the GEMACS code. The FORTRAN named common variables are presented in alphabetical order. A common block/subroutine location index follows that for each module. Then the variables are defined for each common block, including the common executable FORTRAN statements blocks.

PREVIOUS PAGE
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VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
A		GEOMEL		
AA		CYLIN		
ANUMK		ANUM		
ANUML		ANUM		
AREA		AMPZIJ		
AS		GTD		
B		AMPZIJ		
B		GEOMEL		
BB		CYLIN		
BCD	(1-168)	BNDRCL		
BD	(1-168)	BNDFCL		
BTDC	(1-336)	BNDDCL		
BTI	(1-56)	BNDICL		
BTS	(1-4)	BNDSCL		
CABI		AMPZIJ		
CABJ		AMPZIJ		
CAS		GTD		
CHKPNT		SYSFIL	BLKDAT	.FALSE.
CHKWRT		SYSFIL	BLKDAT	.FALSE.
CJ		COMP	BLKDAT	(0.,1.)
CLITE		AMPZIJ	BLKDAT	299.79
CNC	(1-2)	GEOMEL		
COMPLT		SYSFIL	BLKDAT	.FALSE.
CPFRWD		SYSFIL	BLKDAT	.TRUE.

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
CPI4		COMP	BLKDAT	(.70710678,-70710678)
CPS		DIR		
CTC	(1-2)	GEOMEL		
CTHS		DIR		
CVAL	(1-60)	CSYSTEM	BLKDAT	0
CX	(1-10)	CSYSTEM		EQUIVALENCE CVAL
CY	(1-10)	CSYSTEM		
CZ	(1-10)	CSYSTEM		
D	(1-3)	DIR		
DBGPRT		ADEBUG	BLKDAT	.FALSE.
DDC	(1-168)	BNDDCL		
DGTORD		GEODAT	BLKDAT	174.53293E-04
DIK		AMPZIJ		
DIL		AMPZIJ		
DP	(1-2)	THPHUV		
DPR		PIS	BLKDAT	57.2957795
DT	(1-3)	THPHUV		
DTDC	(1-84)	BNDDCL		
DTI	(1-14)	BNDICL		
DTS		BNDSCCL		
E	(1-3)	FLOVAL		
EFED	(1-361)	FEDDAT		
EHPH		FUDG		
EHPHI		FUDGI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
EHPHJ		FUDGJ		
EHTH		FUDG		
EHTHI		FUDGI		
EHTHJ		FUDGJ		
EPHT	(1-361)	ESTOR		
EPSR		AMPZIJ	BLKDAT	0.0
ESPH		FUDG		
ESPHI		FUDGI		
ESPHJ		FUDGJ		
ESTH		FUDG		
ESTHI		FUDGI		
ESTHJ		FUDGJ		
ETA		AMPZIJ	BLKDAT	376.72727
ETHT	(1-361)	ESTOR		
EXIT1		AMPZIJ		
EXIT2		AMPZIJ		
EXRT1		AMPZIJ		
EXRT2		AMPZIJ		
EYIT1		AMPZIJ		
EYIT2		AMPZIJ		
EYRT1		AMPZIJ		
EYRT2		AMPZIJ		
EZIT1		AMPZIJ		
EZIT2		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
EZRT1		AMPZIJ		
EZRT2		AMPZIJ		
FACTOR		SOURSF		
FARFLD		FLDVAL		
FJ		AMPZIJ	BLKDAT	(0.0,1.0)
FLDPT	(1-3)	NEAR		
FLTARG	(1-100)	ARGCOM	BLKDAT	0.0
FLTLIT		PARTAB		EQUIVALENCE LITNUM
FLTSYM	(1-100)	SYMSTR	BLKDAT	0.
FNP	(1-84)	FNANG		
FRQGLA		LAST		
FRQMHZ		AMPZIJ		
FX		FLDXYZ		
FY		FLDXYZ		
FZ		FLDXYZ		
GAREA		SEGMNT		
H		FARP		
HAW		FARP		
HFED	(1-361)	FEDDAT		
IANG		DOUBLE		
IAXIS	(1,2,3)	GEODAT	BLKDAT	24,25,26
IBLANK		SCNPAR	BLKDAT	9
IBSCER		BSCERR		
ICALL		ADEBUG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
ICOMMA		SCNPAR	BLKDAT	10
IC01		AMPZIO		
IC02		AMPZIO		
ICTYPE		FLO/AL		
ICYTAG		GTDDAT	BLKDAT	20002
ID		GTID		
IDCSYS	(1-10)	CSYSTEM	BLKDAT	0
IDD	(1-361)	DOUBLE		
IDEFIN	(1-500)	DEFDAT	BLKDAT	0
IDFINS		DEFDAT	BLKDAT	0
IDG	(1-84)	DOUBLE		
IDIG	(1-10)	SCNPAR	BLKDAT	1,2,3,4,5,6,7,8,9,0
IDOLAR		SCNPAR	BLKDAT	7
IDUMMY	(1-9)	ADEBUG		
IECTAG		GTDDAT	BLKDAT	20003
IEH		EHFLD		
IEQUAL		SCNPAR	BLKDAT	8
IERRF		ADEBUG	BLKDAT	0
IGDNLA		LAST		
IGNORE		SCNPAR	BLKDAT	1
IJ		TMI		
ILEFT		SCNPAR	BLKDAT	5
IM		FARP		
IM		SRC		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
IMDCHK		ADEBUG	BLKDAT	0
IMINUS		SCNPAR	BLKDAT	2
INCCHK		SYSFIL		
INDXWB		ADEBUG	BLKDAT	1
INTARG	(1-100)	ARGCOM		EQUIVALENCE FLTARG
INTSYM	(1-100)	SYMSTR	BLKDAT	EQUIVALENCE FLTSYM
INTVAL		SCNPAR		
IOCKPT		SYSFIL	BLKDAT	7
IOFILE	(1)	IOFLES	BLKDAT	-1
	(2)	IOFLES	BLKDAT	-1
	(3)	IOFLES	BLKDAT	-1
	(4-6)	IOFLES	BLKDAT	0
	(7-99)	IOFLES	BLKDAT	-1
IOSCR1		SYSFIL	BLKDAT	1
IOSCR2		SYSFIL	BLKDAT	2
IOSYMB		SYSFIL	BLKDAT	8
IOTASK		SYSFIL	BLKDAT	4
IPASS		ARGCOM		
IPATCH		TMI		
IPER		SCNPAR	BLKDAT	11
IPERF		AMPZIJ		
IPLTAG		STDDAT	BLKDAT	20001
IPLUS		SCNPAR	BLKDAT	1
IPSARG		SCNPAR		
IPSDAT		SCNPAR		
IPSLIT		SCNPAR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
IPSL00		SCNPAR		
IPSTSK		SCNPAR		
IPTBUF		PNTTBL	BLKDAT	1
IPTS		PNTTBL	BLKDAT	0
IPTTBL	(1-400)	PNTTBL	BLKDAT	EQUIVALENCE PTTBLE
IP217		GEODAT	BLKDAT	131072
IRFLC	(1-3)	GEODAT		
IRIGHT		SCNPAR	BLKDAT	6
IRSTRT		ADEBUG		
ISCALE	(1,2,3)	GEODAT	BLKDAT	404,590,205
ISEG		SEGMNT	BLKDAT	0
ISEQ	(1-100)	GEODAT		
ISSETB	(1-5)	INTMAT	BLKDAT	136,127,123,126,124
	(6-10)	INTMAT	BLKDAT	125,143,127,130,141
	(11-15)	INTMAT	BLKDAT	128,129,135,131,132
	(16-20)	INTMAT	BLKDAT	133,134,137,140,138
	(21-25)	INTMAT	BLKDAT	139,0,2,3,4
	(26-30)	INTMAT	BLKDAT	5,6,7,8,9
	(31-35)	INTMAT	BLKDAT	10,11,12,13,14
	(36-40)	INTMAT	BLKDAT	15,16,17,18,19
	(41-45)	INTMAT	BLKDAT	20,21,22,0,18
	(46-50)	INTMAT	BLKDAT	9,4,5,6,7
	(51-55)	INTMAT	BLKDAT	8,9,13,11,12
	(56-60)	INTMAT	BLKDAT	13,18,15,16,17
	(61-65)	INTMAT	BLKDAT	18,19,22,21,22
	(66-70)	INTMAT	BLKDAT	0,0,0,1,1
	(71-75)	INTMAT	BLKDAT	1,1,1,1,0
	(76-80)	INTMAT	BLKDAT	2,2,2,0,3
	(81-85)	INTMAT	BLKDAT	3,3,3,4,0
	(86-90)	INTMAT	BLKDAT	5,5,0,0,0
	(91-95)	INTMAT	BLKDAT	2,3,4,5,6
	(96-100)	INTMAT	BLKDAT	7,0,1,2,3
	(101-105)	INTMAT	BLKDAT	0,1,2,3,4
	(106-110)	INTMAT	BLKDAT	1,0,1,2,0

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
ISGTBL	(1-5500)	SEGMNT	BLKDAT	EQUIVALENCE SEGTBL
ISLASH		SCNPAR	BLKDAT	4
ISOFF		ADEBUG	BLKDAT	0
ISON		ADEBUG	BLKDAT	1
ISRCE		FLDVAL		
ISTAR		SCNPAR	BLKDAT	3
ISUBR		ADEBUG		
ISYMBL	(1-11)	SCNPAR	BLKDAT	+, -, *, /, (,), \$, =, .,
ITAGID	(1-3)	GTDDAT		EQUIVALENCE IPLTAG, ICYTAG, IECTAG
ITASK		ADEBUG		
ITEMP	(1-5500)	TEMP01		EQUIVALENCE TEMP
ITYPDE		GEODAT	BLKDAT	262
ITYPPL		GEODAT	BLKDAT	1036
ITYPPT		GEODAT	BLKDAT	1044
ITYPTG		GEODAT	BLKDAT	1287
IWORDS	(1-20)	ADEBUG	BLKDAT	0
IWRTCK		ADEBUG		
JBIA1		SEGMNT	BLKDAT	40000
JBIA2		SEGMNT	BLKDAT	60000
JBIA3		SEGMNT	BLKDAT	80000
JCBIA		SEGMNT	BLKDAT	20000
JCO1		AMPZIJ		
JCO2		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
JDIG	(1-10)	SCNPAR	BLKDAT	1,2,3,4,5,6,7,8,9,0
JIX	(1-50)	JUNCOM		
JIZ	(1-50)	JUNCOM		
JOX	(1-50)	JUNCOM		
JOZ	(1-50)	JUNCOM		
KBBAND		PARTAB	BLKDAT	7
KBBITS	(1-15)	PARTAB	BLKDAT	0
KBCPLX		PARTAB	BLKDAT	3
KBDPRE		PARTAB	BLKDAT	4
KBFFLD		PARTAB	BLKDAT	20
KBFULL		PARTAB	BLKDAT	5
KBGEOM		PARTAB	BLKDAT	13
KBINTP		SCNPAR	BLKDAT	1
KBLEFT		PARTAB	BLKDAT	8
KBLOAD		PARTAB	BLKDAT	18
KBLWRT		PARTAB	BLKDAT	10
KBNFLD		PARTAB	BLKDAT	19
KBORDR		PARTAB	BLKDAT	9
KBPVIT		PARTAB	BLKDAT	12
KBREAL		PARTAB	BLKDAT	2
KBSNGL		PARTABL	BLKDAT	0
KBSOLN		PARTAB	BLKDAT	16
KBSRCE		PARTAB	BLKDAT	14
KBSYM		PARTAB	BLKDAT	6

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KBSYMY		PARTAB	BLKDAT	17
KBTEXT		PARTAB	BLKDAT	1
KBUPRT		PARTAB	BLKDAT	11
KBZIMP		PARTAB	BLKDAT	15
KCHKPT		SCNPAR	BLKDAT	2
KINPUT		SCNPAR	BLKDAT	4
KJFLD		INTMAT	BLKDAT	.FALSE.
KJGTD		INTMAT	BLKDAT	.FALSE.
KJINT	(1-18)	INTMAT		
KJMOM		INTMAT	BLKDAT	.TRUE.
KOLAST		PARTAB	BLKDAT	4
KOLBIT		PARTAB	BLKDAT	5
KOLCNT		PARTAB	BLKDAT	4
KOLCOD		PARTAB	BLKDAT	1
KOLCOL		PARTAB	BLKDAT	7
KOLFST		PARTAB	BLKDAT	3
KOLLBL		PARTAB	BLKDAT	1
KOLLNK		PARTAB	BLKDAT	8
KOLLOC		PARTAB	BLKDAT	2
KOLNAM		PARTAB	BLKDAT	1
KOLROW		PARTAB	BLKDAT	6
KOLTIM		PARTAB	BLKDAT	3
KOLTSK		PARTAB	BLKDAT	2
KOLVAL		PARTAB	BLKDAT	2

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KOUTPT		SCNPAR	BLKDAT	5
KRSTRT		SCNPAR	BLKDAT	3
KSYMDF		SCNPAR	BLKDAT	6
KSYMP		AMPZIJ		
KWABS		PARTAB	BLKDAT	22
KWARG	(1-5)	PARTAB	BLKDAT	0,-2,-3,0,0
	(6-10)	PARTAB	BLKDAT	-2,-13,-2,0,-2
	(11-15)	PARTAB	BLKDAT	-2,-66,0,-1,-2
	(16-20)	PARTAB	BLKDAT	-2,-9,-5,-6,-15
	(21-25)	PARTAB	BLKDAT	-14,-2,0,-2,-2
	(26-30)	PARTAB	BLKDAT	-66,-11,-11,-2,-2
	(31-35)	PARTAB	BLKDAT	-2,0,-26,0,0
	(36-40)	PARTAB	BLKDAT	-2,-10,-358,-9,-9
	(41-45)	PARTAB	BLKDAT	-6,-6,0,-3,-6
	(46-50)	PARTAB	BLKDAT	46,-6,-6,-6,-5
	(51-55)	PARTAB	BLKDAT	-3,-5,0,54,55
	(56-60)	PARTAB	BLKDAT	56,57,58,59,-6
	(61-65)	PARTAB	BLKDAT	0,0,63,64,-9
	(66-70)	PARTAB	BLKDAT	-5,67,-6,-6,-5
	(71-75)	PARTAB	BLKDAT	0,-6,-6,0,0
	(76-80)	PARTAB	BLKDAT	76,-9,0,0,0
	(81-85)	PARTAB	BLKDAT	81,82,-5,84,-9
	(86-90)	PARTAB	BLKDAT	-6,-6,-165,0,0
	(91-95)	PARTAB	BLKDAT	-6,-6,-6,-6,0
	(96-100)	PARTAB	BLKDAT	0,-6,-6,0,0
	(101-105)	PARTAB	BLKDAT	101,102,103,-5,-5
	(106-110)	PARTAB	BLKDAT	-5,-1,0,0,-6
	(111-115)	PARTAB	BLKDAT	-6,-6,-6,-6,-6
	(116-118)	PARTAB	BLKDAT	-6,117,118
	(119-122)	PARTAB	BLKDAT	0
	(123-127)	PARTAB	BLKDAT	123,124,125,126,127
	(128-132)	PARTAB	BLKDAT	128,129,130,131,132
	(133-137)	PARTAB	BLKDAT	133,134,135,136,137
	(138-143)	PARTAB	BLKDAT	138,139,140,141,142,143
	(144-150)	PARTAB	BLKDAT	-9,0,0,0,0,0,0
KWAXIS		PARTAB	BLKDAT	40
KWBAND		PARTAB	BLKDAT	2

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VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWBCRE		PARTAB	BLKDAT	119
KWBCSB		PARTAB	BLKDAT	1
KWBNDW		PARTAB	BLKDAT	41
KWC		PARTAB	BLKDAT	42
KWCD		PARTAB	BLKDAT	133
KWCDP		PARTAB	BLKDAT	43
KWCHKP		PARTAB	BLKDAT	4
KWCLPS		PARTAB	BLKDAT	5
KWCNJG		PARTAB	BLKDAT	6
KWCNVG		PARTAB	BLKDAT	17
KWCOND		PARTAB	BLKDAT	104
KWCPNC		PARTAB	BLKDAT	44
KWCPNM		PARTAB	BLKDAT	45
KWCR		PARTAB	BLKDAT	132
KWCS		PARTAB	BLKDAT	141
KWCW		PARTAB	BLKDAT	46
KWCY		PARTAB	BLKDAT	130
KWC1		PARTAB	BLKDAT	47
KWC2		PARTAB	BLKDAT	48
KWD		PARTAB	BLKDAT	49
KWDEBUG		PARTAB	BLKDAT	7
KWDC		PARTAB	BLKDAT	134
KWDM	(1-4)	PARTAB		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWDP		PARTAB	BLKDAT	114
KWDR		PARTAB	BLKDAT	110
KWDT		PARTAB	BLKDAT	112
KWDUMY	(1)	PARTAB		
KWDW		PARTAB	BLKDAT	67
KWDX		PARTAB	BLKDAT	111
KWDY		PARTAB	BLKDAT	113
KWDZ		PARTAB	BLKDAT	115
KWEC		PARTAB	BLKDAT	142
KWECC		PARTAB	BLKDAT	50
KWED		PARTAB	BLKDAT	129
KWEDRV		PARTAB		
KWEI		PARTAB	BLKDAT	140
KWEND		PARTAB	BLKDAT	9
KWEP SR		PARTAB	BLKDAT	105
KWER		PARTAB	BLKDAT	128
KWES		PARTAB	BLKDAT	139
KWESRC		PARTAB	BLKDAT	11
KWEU		PARTAB	BLKDAT	138
KWEXP N		PARTAB		
KWFFLD		PARTAB	BLKDAT	13
KWFLID		PARTAB	BLKDAT	51
KWFMT P	(1-5)	PARTAB	BLKDAT	1,6,0,15,0

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(6-10)	PARTAB	BLKDAT	26,30,35,40,183
	(11-15)	PARTAB	BLKDAT	191,0,202,91,48
	(16-20)	PARTAB	BLKDAT	0,0,0,62,72
	(21-25)	PARTAB	BLKDAT	75,78,0,82,0
	(26-30)	PARTAB	BLKDAT	243,103,107,0,117
	(31-35)	PARTAB	BLKDAT	124,132,137,146,151
	(36-39)	PARTAB	BLKDAT	158,162,166,174
	(40-105)	PARTAB	BLKDAT	0
	(106)	PARTAB	BLKDAT	226
	(107-121)	PARTAB	BLKDAT	0
	(122)	PARTAB	BLKDAT	240
	(123-150)	PARTAB	BLKDAT	0
KWFRQ		PARTAB	BLKDAT	52
KWGDAT		PARTAB		
KWGEOM		PARTAB		
KWGMDT		PARTAB	BLKDAT	14
KWGTD		PARTAB	BLKDAT	136
KWICOD		PARTAB		
KWILP		PARTAB	BLKDAT	99
KWINPT		PARTAB	BLKDAT	145
KWINV		PARTAB	BLKDAT	16
KWIPE		PARTAB	BLKDAT	37
KWIRE		PARTAB	BLKDAT	120
KWIS		PARTAB	BLKDAT	53
KWL		PARTAB		
KWLABL		PARTAB	BLKDAT	20
KWLBW		PARTAB		
KWLGLG		PARTAB	BLKDAT	58
KWLGLN		PARTAB	BLKDAT	57

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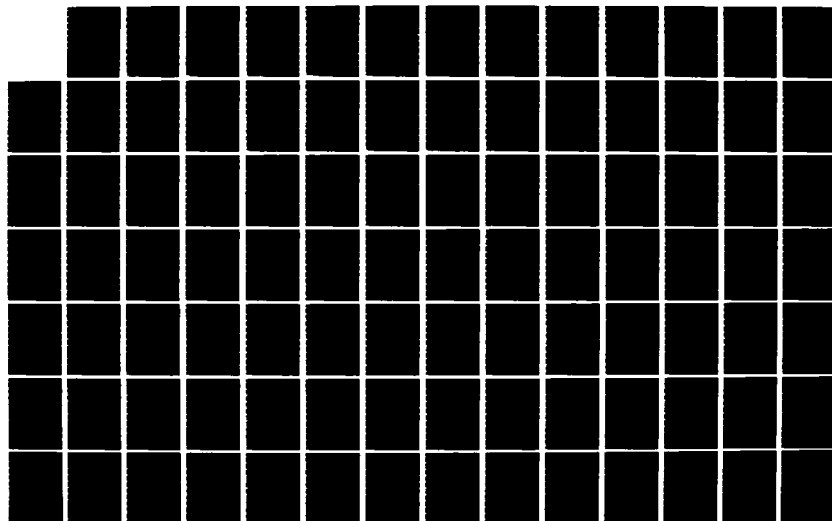
GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

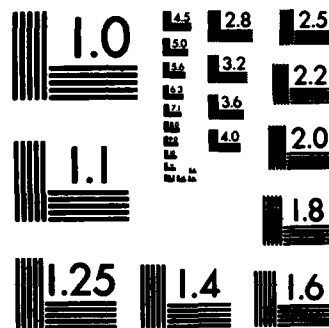
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MICROCOPY RESOLUTION TEST CHART
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VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWLGPO		PARTAB	BLKDAT	59
KWLMT		PARTAB	BLKDAT	256
KWNLG		PARTAB	BLKDAT	55
KWNLN		PARTAB	BLKDAT	54
KWLNPO		PARTAB	BLKDAT	56
KWLOAD		PARTAB		
KWLOOP		PARTAB	BLKDAT	21
KWLU		PARTAB	BLKDAT	60
KWLUD		PARTAB	BLKDAT	8
KWMAG		PARTAB		
KWMAX		PARTAB	BLKDAT	146
KWMH		PARTAB	BLKDAT	137
KWMODL		PARTAB	BLKDAT	144
KWMRG		PARTAB		
KWMXIT		PARTAB	BLKDAT	19
KWN		PARTAB	BLKDAT	61
KWNAME	(1-5)	PARTAB	BLKDAT	107,73,213,109,110
	(6-10)	PARTAB	BLKDAT	89,92,64,59,195
	(11-15)	PARTAB	BLKDAT	196,114,173,118,197
	(16-20)	PARTAB	BLKDAT	62,111,105,127,95
	(21-25)	PARTAB	BLKDAT	77,198,0,199,97
	(26-30)	PARTAB	BLKDAT	80,99,101,131,132
	(31-35)	PARTAB	BLKDAT	133,194,71,104,136
	(36-40)	PARTAB	BLKDAT	137,138,139,86,200
	(41-45)	PARTAB	BLKDAT	191,4,58,90,91
	(46-50)	PARTAB	BLKDAT	187,49,50,5,169
	(51-55)	PARTAB	BLKDAT	116,60,185,121,122
	(56-60)	PARTAB	BLKDAT	123,124,125,126,51
	(61-65)	PARTAB	BLKDAT	15,150,67,52,98

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(66-70)	PARTAB	BLKDAT	170,201,152,153,19
	(71-75)	PARTAB	BLKDAT	69,53,54,55,82
	(76-80)	PARTAB	BLKDAT	175,70,83,16,84
	(81-85)	PARTAB	BLKDAT	188,202,177,178,85
	(86-90)	PARTAB	BLKDAT	158,159,23,160,25
	(91-95)	PARTAB	BLKDAT	163,164,165,166,148
	(96-100)	PARTAB	BLKDAT	27,167,168,61,203
	(101-105)	PARTAB	BLKDAT	135,100,130,74,75
	(106-110)	PARTAB	BLKDAT	184,140,204,205,206
	(111-115)	PARTAB	BLKDAT	207,208,209,210,211
	(116-120)	PARTAB	BLKDAT	212,214,215,220,221
	(121-127)	PARTAB	BLKDAT	222,223,224,225,226, 227,228
	(128-133)	PARTAB	BLKDAT	229,230,231,232,233, 234
	(134-139)	PARTAB	BLKDAT	235,236,237,238,239, 240
	(140-150)	PARTAB	BLKDAT	241,144,242,243,246, 94,129,4*0
KWNFLD		PARTAB	BLKDAT	23
KWNMFL		PARTAB	BLKDAT	116
KWNP		PARTAB	BLKDAT	62
KWNR		PARTAB	BLKDAT	117
KWNOFF		PARTAB	BLKDAT	63
KWON		PARTAB	BLKDAT	64
KWOUTP		PARTAB	BLKDAT	146
KWPART		PARTAB	BLKDAT	25
KWPC		PARTAB	BLKDAT	135
KWPD		PARTAB	BLKDAT	124
KWPDR		PARTAB	BLKDAT	143
KWPHI		PARTAB	BLKDAT	66
KWPIVT		PARTAB	BLKDAT	65
KWPL		PARTAB	BLKDAT	127

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KMPLOT		PARTAB	BLKDAT	26
KMPLSE		PARTAB	BLKDAT	102
KMPLT		PARTAB		
KWPR		PARTAB	BLKDAT	123
KWPRE		PARTAB	BLKDAT	121
KWPRGE		PARTAB	BLKDAT	28
KWPRLC		PARTAB	BLKDAT	108
KWPRNT		PARTAB	BLKDAT	27
KWPSN		PARTAB	BLKDAT	103
KWPW		PARTAB		
KWP1		PARTAB	BLKDAT	68
KWP2		PARTAB	BLKDAT	69
KWR		PARTAB	BLKDAT	70
KWRC		PARTAB	BLKDAT	131
KWRD		PARTAB	BLKDAT	125
KWRDP		PARTAB	BLKDAT	71
KWRDUC		PARTAB	BLKDAT	29
KWREAD		PARTAB	BLKDAT	15
KWREPL		PARTAB	BLKDAT	31
KWRFLC		PARTAB	BLKDAT	30
KWRITE		PARTAB	BLKDAT	24
KWRR		PARTAB	BLKDAT	126
KWRSTR		PARTAB	BLKDAT	32
KWR1		PARTAB	BLKDAT	72

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWR2		PARTAB	BLKDAT	73
KWSC		PARTAB	BLKDAT	74
KWSCDP		PARTAB	BLKDAT	75
KWSEGS		PARTAB	BLKDAT	76
KWSEQ		PARTAB	BLKDAT	77
KWSET		PARTAB	BLKDAT	33
KWSIZE		PARTAB	BLKDAT	78
KWSMOF		PARTAB	BLKDAT	35
KWSNCS		PARTAB	BLKDAT	101
KWSOLV		PARTAB	BLKDAT	34
KWSR		PARTAB	BLKDAT	79
KWSRDP		PARTAB	BLKDAT	80
KWSRLC		PARTAB	BLKDAT	109
KWSTAT		PARTAB	BLKDAT	118
KWSTNT		PARTAB	BLKDAT	122
KWSW		PARTAB	BLKDAT	81
KWTAG		PARTAB		
KWTAGS		PARTAB	BLKDAT	82
KWTDH		PARTAB	BLKDAT	100
KWTHET		PARTAB	BLKDAT	83
KWTIME		PARTAB	BLKDAT	3
KWTRAC		PARTAB	BLKDAT	84
KWTRAN		PARTAB	BLKDAT	36
KWTYPE		PARTAB	BLKDAT	85

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
KWT1		PARTAB	BLKDAT	86
KWT2		PARTAB	BLKDAT	87
KWUBW		PARTAB		
KWV		PARTAB	BLKDAT	88
KWVALU		PARTAB	BLKDAT	18
KWVS		PARTAB	BLKDAT	89
KWVSRC		PARTAB	BLKDAT	10
KWUIPE		PARTAB		
KWX		PARTAB	BLKDAT	90
KWXPND		PARTAB	BLKDAT	12
KWX1		PARTAB	BLKDAT	91
KWX2		PARTAB	BLKDAT	92
KWY1		PARTAB	BLKDAT	93
KWY2		PARTAB	BLKDAT	94
KWZ		PARTAB	BLKDAT	96
KWZCDS		PARTAB	BLKDAT	38
KWZCOD		PARTAB		
KWZGEN		PARTAB	BLKDAT	39
KWZIMP		PARTAB	BLKDAT	95
KWZLDS		PARTAB	BLKDAT	106
KWZMAT		PARTAB	BLKDAT	107
KWZ1		PARTAB	BLKDAT	97
KWZ2		PARTAB	BLKDAT	98
LB		ADEBUG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LCALLR		ADEBUG	BLKDAT	0
LCALNM		ADEBUG	BLKDAT	0
LCHAR		SCNPAR		
LCORNR		LOGDIF		
LCYL		LPLCY		
LDC	(1-84)	LDCBY		
LDEBUG		TEST		
LDRC	(1-84)	CLDRC		
LETR	(1-5) (6-10) (11-15) (16-20) (21-26)	SCNPAR SCNPAR SCNPAR SCNPAR SCNPAR	BLKDAT BLKDAT BLKDAT BLKDAT BLKDAT	A,B,C,D,E F,G,H,I,J K,L,M,N,O P,Q,R,S,T U,V,W,X,Y,Z
LFRQFL		SAME		
LGDNFL		SAME		
LGRND		GROUND		
LIHD	(1-196)	LSHDT		
LITNMX		PARTAB	BLKDAT	50
LITNUM	(1-100)	PARTAB	BLKDAT	0
LNRFLD		NEAR		
LOCAII		FLDCOM		
LOCAIR		FLDCOM		
LOCBII		FLDCOM		
LOCBIR		FLDCOM		
LOCCII		FLDCOM		
LOCCIR		FLDCOM		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LOOPMX		PARTAB	BLKDAT	10
LPLA		LPLCY		
LPRAD		OUTPTD		
LRANG		OUTPTD		
LRDC	(1-84)	CLRDC		
LRFC		CLRFC		
LRFI	(1-14)	CLRFI		
LRFS	(1-14)	CLRFS		
LROUTN		ADEBUG	BLKDAT	0
LRTNUM		ADEBUG	BLKDAT	0
LSAVE	(1-5)	ADEBUG		
LSHD	(1-14)	LSHDT		
LSLOPE		LOGDIF		
LSRCFL		SAME		
LSRFC	(1-2)	SRFACC		
LSTAMP		AMPZIJ		
LSTARG		ARGCOM		
LSTASK		SCNPAR	BLKDAT	3
LSTAT		ADEBUG	BLKDAT	0
LSTCOL		SCNPAR	BLKDAT	80
LSTCSY		CSYSTEM	BLKDAT	0
LSTD	(1-14)	LSHDP		
LSTDAT		SCNPAR	BLKDAT	1
LSTDEF		DEFDAT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
LSTFNC		SCNPAR	BLKDAT	0
LSTGEO		GEODAT		
LSTINP		SCNPAR	BLKDAT	4
LSTINT		SCNPAR	BLKDAT	2
LSTIOD		ADEBUG	BLKDAT	20
LSTIOF		IOFLES		
LSTMOD		MODULE		
LSTPAR		PARTAB		
LSTPTB		PNTTBL		
LSTS		LSHDP		
LSTSYS	(1-20)	SYSFIL	BLKDAT	0
LSTTMP		TEMP01		
LSTTPF		SYSFIL	BLKDAT	0
LSURF	(1-14)	SURFAC		
LTEST		TEST		
LTRACE		ADEBUG	BLKDAT	0
LTRF		FUDG		
LTRFI		FUDGI		
LTRFJ		FUDGJ		
LUDEBUG		ADEBUG	BLKDAT	0
LUPRNT		ADEBUG	BLKDAT	6
LUTASK		ADEBUG	BLKDAT	5
L1		FLDVAL		
L2		FLDVAL		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
L3		FLDVAL		
MACHIN		ADEBUG	BLKDAT	6181
MANTSA		ADEBUG	BLKDAT	27
MATCH		SCNPAR		
MAXBLK		SEGMNT		
MAXCDS		SCNPAR	BLKDAT	60
MAXCON		JUNCOM	BLKDAT	50
MAXCSY		CSYSTN	BLKDAT	10
MAXCYL		GTDDAT	BLKDAT	1
MAXDEF		DEFDAT	BLKDAT	100
MAXECP		GTDDAT	BLKDAT	2
MAXPLT		GTDDAT	BLKDAT	14
MAXPTS		PNTTBL	BLKDAT	100
MAXRAD		SEGMNT	BLKDAT	10
MAXSEG		SEGMNT	BLKDAT	500
MAXSTR		SYMSTR	BLKDAT	100
MEP	(1-14)	GEOPLA		
MMX		PARTAB	BLKDAT	3
MLTJCT		SEGMNT		
MODCHK		SYSFIL	BLKDAT	7
MODLST	(1-10)	MODULE	BLKDAT	0
MODMAX		MODULE	BLKDAT	10
MODNAM		MODULE		
MPH		HITPLT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
MPX		GEOPLA		
MPXR		GROUND		
MXANCT		SCNPAR	BLKDAT	6
MXARGS		ARGCOM	BLKDAT	100
MXARGT		PARTAB	BLKDAT	32
MXCDFG		SCNPAR	BKDAT	0
MXCYAR		GTDDAT	BLKDAT	6
MXDPCT		SCNPAR	BLKDAT	28
MXECAR		GTDDAT	BLKDAT	5
MXEXFP		SCNPAR	BLKDAT	293
MXEXPD		SCNPAR	BLKDAT	293
MXFPCT		SCNPAR	BLKDAT	14
MXINCT		SCNPAR	BLKDAT	18
MXMAT		PARTAB	BLKDAT	6
MXPLAR		GTDDAT	BLKDAT	20
MXSUBS		ADEBUG	BLKDAT	200
MXSYMB		PARTAB	BLKDAT	11
MXWALK		ADEBUG	BLKDAT	28
NAMDEF		DEFDAT	BLKDAT	4380508300
NAMPTS		PNTTBL	BLKDAT	17516467457
NAMRTN	(1) (2-28)	ADEBUG ADEBUG	BLKDAT	BLANK
NAMSEG		SEGMNT	BLKDAT	0
NAMSRC		FLOVAI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NAMTSK	(1-5)	PARTAB	BLKDAT	57,107,190,108,109
	(6-10)	PARTAB	BLKDAT	88,89,92,112,59
	(11-15)	PARTAB	BLKDAT	113,114,94,119,120
	(16-20)	PARTAB	BLKDAT	95,77,96,128,78
	(21-25)	PARTAB	BLKDAT	129,97,80,99,101
	(26-30)	PARTAB	BLKDAT	131,132,133,134,71
	(31-35)	PARTAB	BLKDAT	104,136,137,138,139
	(36-40)	PARTAB	BLKDAT	87,61,117,86,180
	(41-46)	PARTAB	BLKDAT	184,184,173,203,195,196
	(47-100)	PARTAB	BLKDAT	223,53*1
NARG	(1-10)	SCNPAR		
NARGLM		PARTAB		
NARGMX		PARTAB	BLKDAT	1000
NARGN		PARTAB		
NARGS		SCNPAR		
NARGT	(1-10)	SCNPAR		
NARGTB	(1-1000)	PARTAB	BLKDAT	0
NARGTP	(1-10)	PARTAB		
NARITH		SCNPAR	BLKDAT	3
NBLANK		SCNPAR	BLKDAT	6
NBYTES		ADEBUG	BLKDAT	6
NBYTSZ		ADEBUG	BLKDAT	6
NCARD	(1-81)	SCNPAR	BLKDAT	1 BLANK
NCARDS		SCNPART	BLKDAT	0
NCCARD		SCNPAR		
NCCLAS		SCNPAR	BLKDAT	0
NCHAR		SCNPAR	BLKDAT	1 BLANK
NCIX		JUNCOM		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NCIZ		JUNCOM		
NCODE	(1-256)	SCNPAR	BLKDAT	0
NCODES	(1)	PARTAB	BLKDAT	0 /ILLEGAL/
	(2)	PARTAB	BLKDAT	1 /A/
	(3)	PARTAB	BLKDAT	2 /B/
	(4)	PARTAB	BLKDAT	3 /C/
	(5)	PARTAB	BLKDAT	4 /D/
	(6)	PARTAB	BLKDAT	5 /E/
	(7)	PARTAB	BLKDAT	6 /F/
	(8)	PARTAB	BLKDAT	7 /G/
	(9)	PARTAB	BLKDAT	8 /H/
	(10)	PARTAB	BLKDAT	9 /I/
	(11)	PARTAB	BLKDAT	10 /J/
	(12)	PARTAB	BLKDAT	11 /K/
	(13)	PARTAB	BLKDAT	12 /L/
	(14)	PARTAB	BLKDAT	13 /M/
	(15)	PARTAB	BLKDAT	14 /N/
	(16)	PARTAB	BLKDAT	15 /O/
	(17)	PARTAB	BLKDAT	16 /P/
	(18)	PARTAB	BLKDAT	17 /Q/
	(19)	PARTAB	BLKDAT	18 /R/
	(20)	PARTAB	BLKDAT	19 /S/
	(21)	PARTAB	BLKDAT	20 /T/
	(22)	PARTAB	BLKDAT	21 /U/
	(23)	PARTAB	BLKDAT	22 /V/
	(24)	PARTAB	BLKDAT	23 /W/
	(25)	PARTAB	BLKDAT	24 /X/
	(26)	PARTAB	BLKDAT	25 /Y/
	(27)	PARTAB	BLKDAT	26 /Z/
	(28)	PARTAB	BLKDAT	28 /1/
	(29)	PARTAB	BLKDAT	29 /2/
	(30)	PARTAB	BLKDAT	30 /3/
	(31)	PARTAB	BLKDAT	31 /4/
	(32)	PARTAB	BLKDAT	32 /5/
	(33)	PARTAB	BLKDAT	33 /6/
	(34)	PARTAB	BLKDAT	34 /7/
	(35)	PARTAB	BLKDAT	35 /8/
	(36)	PARTAB	BLKDAT	36 /9/
	(37)	PARTAB	BLKDAT	27 /0/
	(38)	PARTAB	BLKDAT	37 /+/
	(39)	PARTAB	BLKDAT	38 /-/
	(40)	PARTAB	BLKDAT	39 /*/
	(41)	PARTAB	BLKDAT	40 ///
	(42)	PARTAB	BLKDAT	41 /(/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(43)		PARTAB	BLKDAT	42 /)/
(44)		PARTAB	BLKDAT	43 /\$/
(45)		PARTAB	BLKDAT	44 /=/
(46)		PARTAB	BLKDAT	45 /" "/
(47)		PARTAB	BLKDAT	46 /" ,"/
(48)		PARTAB	BLKDAT	47 /" ."/
(49)		PARTAB	BLKDAT	220 /C1/
(50)		PARTAB	BLKDAT	221 /C2/
(51)		PARTAB	BLKDAT	789 /LU/
(52)		PARTAB	BLKDAT	974 /ON/
(53)		PARTAB	BLKDAT	1180 /R1/
(54)		PARTAB	BLKDAT	1181 /R2/
(55)		PARTAB	BLKDAT	1219 /SC/
(56)		PARTAB	BLKDAT	1234 /SR/
(57)		PARTAB	BLKDAT	4356 /ADD/
(58)		PARTAB	BLKDAT	12560 /CDP/
(59)		PARTAB	BLKDAT	21380 /END/
(60)		PARTAB	BLKDAT	25745 /FRQ/
(61)		PARTAB	BLKDAT	37648 /ILP/
(62)		PARTAB	BLKDAT	37782 /INV/
(63)		PARTAB	BLKDAT	49303 /LBW/
(64)		PARTAB	BLKDAT	50500 /LUD/
(65)		PARTAB	BLKDAT	53319 /MAG/
(66)		PARTAB	BLKDAT	54407 /MRG/
(67)		PARTAB	BLKDAT	61830 /OFF/
(68)		PARTAB	BLKDAT	66324 /PLT/
(69)		PARTAB	BLKDAT	74000 /RDP/
(70)		PARTAB	BLKDAT	78161 /SEQ/
(71)		PARTAB	BLKDAT	78164 /SET/
(72)		PARTAB	BLKDAT	86167 /UBW/
(73)		PARTAB	BLKDAT	529284 /BAND/
(74)		PARTAB	BLKDAT	848772 /COND/
(75)		PARTAB	BLKDAT	1377490 /EPSR/
(76)		PARTAB	BLKDAT	3207236 /LOAD/
(77)		PARTAB	BLKDAT	3208144 /LOOP/
(78)		PARTAB	BLKDAT	3494676 /MULT/
(79)		PARTAB	BLKDAT	4199572 /PART/
(80)		PARTAB	BLKDAT	4244436 /PLOT/
(81)		PARTAB	BLKDAT	4740108 /REPL/
(82)		PARTAB	BLKDAT	4993296 /SCDP/
(83)		PARTAB	BLKDAT	5019269 /SIZE/
(84)		PARTAB	BLKDAT	5054736 /SRDP/
(85)		PARTAB	BLKDAT	5346309 /TYPE/
(86)		PARTAB	BLKDAT	6844750 /ZGEN/
(87)		PARTAB	BLKDAT	6893908 /ZSET/
(88)		PARTAB	BLKDAT	53544133 /CLPSE/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(89)		PARTAB	BLKDAT	54321799 /CONJG/
(90)		PARTAB	BLKDAT	54563715 /CPINC/
(91)		PARTAB	BLKDAT	54584653 /CPNUM/
(92)		PARTAB	BLKDAT	68429127 /DEBUG/
(93)		PARTAB	BLKDAT	151843077 /ICODE/
(94)		PARTAB	BLKDAT	154731860 /INPUT/
(95)		PARTAB	BLKDAT	201597260 /LABEL/
(96)		PARTAB	BLKDAT	219488709 /MERGE/
(97)		PARTAB	BLKDAT	268772622 /PARTN/
(98)		PARTAB	BLKDAT	270885844 /PIVOT/
(99)		PARTAB	BLKDAT	273191828 /PRINT/
(100)		PARTAB	BLKDAT	273990853 /PULSE/
(101)		PARTAB	BLKDAT	274014661 /PURGE/
(102)		PARTAB	BLKDAT	303318339 /REDUC/
(103)		PARTAB	BLKDAT	303325955 /REFLC/
(104)		PARTAB	BLKDAT	322749829 /SOLVE/
(105)		PARTAB	BLKDAT	369411397 /VALUE/
(106)		PARTAB	BLKDAT	406852484 /XPAND/
(107)		PARTAB	BLKDAT	2165126466 /BACSUB/
(108)		PARTAB	BLKDAT	2302230608 /BINTAP/
(109)		PARTAB	BLKDAT	3358393236 /CHKPNT/
(110)		PARTAB	BLKDAT	3476096197 /COLPSE/
(111)		PARTAB	BLKDAT	3476644999 /CONVRG/
(112)		PARTAB	BLKDAT	4379702096 /DECOMP/
(113)		PARTAB	BLKDAT	5675480084 /ERROPT/
(114)		PARTAB	BLKDAT	5775561604 /EXPAND/
(115)		PARTAB	BLKDAT	5775561619 /EXPANS/
(116)		PARTAB	BLKDAT	6596612676 /FILEID/
(117)		PARTAB	BLKDAT	7604040014 /GEOGEN/
(118)		PARTAB	BLKDAT	7735350529 /GMDATA/
(119)		PARTAB	BLKDAT	9904346260 /INVERT/
(120)		PARTAB	BLKDAT	10003944709 /ITRATE/
(121)		PARTAB	BLKDAT	13039616590 /LINLIN/
(122)		PARTAB	BLKDAT	13039616967 /LINLOG/
(123)		PARTAB	BLKDAT	13039633170 /LINPLR/
(124)		PARTAB	BLKDAT	13138444878 /LOGLIN/
(125)		PARTAB	BLKDAT	13138445255 /LOGLOG/
(126)		PARTAB	BLKDAT	13138461458 /LOGPLR/
(127)		PARTAB	BLKDAT	13981750546 /MAXITR/
(128)		PARTAB	BLKDAT	14079837508 /MGNTUD/
(129)		PARTAB	BLKDAT	16463758676 /OUTPUT/
(130)		PARTAB	BLKDAT	17231589966 /PCESIN/
(131)		PARTAB	BLKDAT	19412373701 /REDUCE/
(132)		PARTAB	BLKDAT	19412861140 /REFLCT/
(133)		PARTAB	BLKDAT	19415482435 /REPLAC/
(134)		PARTAB	BLKDAT	19416302740 /RESTRT/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(135)		PARTAB	BLKDAT	20555772883 /SINCOS/
(136)		PARTAB	BLKDAT	20823949638 /SYMDEF/
(137)		PARTAB	BLKDAT	21777147088 /TRANSP/
(138)		PARTAB	BLKDAT	24851314004 /WIPOUT/
(139)		PARTAB	BLKDAT	27971567955 /ZCODES/
(140)		PARTAB	BLKDAT	28135736472 /ZMATRX/
(141)		PARTAB	BLKDAT	84 /AT/
(142)		PARTAB	BLKDAT	197 /CE/
(143)		PARTAB	BLKDAT	208 /CP/
(144)		PARTAB	BLKDAT	211 /CS/
(145)		PARTAB	BLKDAT	261 /DE/
(146)		PARTAB	BLKDAT	262 /DF/
(147)		PARTAB	BLKDAT	334 /EN/
(148)		PARTAB	BLKDAT	6853456 /ZIMP/
(149)		PARTAB	BLKDAT	848 /MP/
(150)		PARTAB	BLKDAT	912 /NP/
(151)		PARTAB	BLKDAT	1044 /PT/
(152)		PARTAB	BLKDAT	1052 /P1/
(153)		PARTAB	BLKDAT	1053 /P2/
(154)		PARTAB	BLKDAT	1153 /RA/
(155)		PARTAB	BLKDAT	1158 /RF/
(156)		PARTAB	BLKDAT	1166 /RN/
(157)		PARTAB	BLKDAT	1176 /RX/
(158)		PARTAB	BLKDAT	1308 /T1/
(159)		PARTAB	BLKDAT	1309 /T2/
(160)		PARTAB	BLKDAT	1427 /VS/
(161)		PARTAB	BLKDAT	1490 /WR/
(162)		PARTAB	BLKDAT	1548 /XL/
(163)		PARTAB	BLKDAT	1564 /X1/
(164)		PARTAB	BLKDAT	1565 /X2/
(165)		PARTAB	BLKDAT	1628 /Y1/
(166)		PARTAB	BLKDAT	1629 /Y2/
(167)		PARTAB	BLKDAT	1692 /Z1/
(168)		PARTAB	BLKDAT	1693 /Z2/
(169)		PARTAB	BLKDAT	20675 /ECC/
(170)		PARTAB	BLKDAT	66057 /PHI/
(171)		PARTAB	BLKDAT	81991 /TAG/
(172)		PARTAB	BLKDAT	1328278 /EDRV/
(173)		PARTAB	BLKDAT	5471752964 /EFIELD/
(174)		PARTAB	BLKDAT	1177 /RY/
(175)		PARTAB	BLKDAT	5001683 /SEGS/
(176)		PARTAB	BLKDAT	67662798 /DBGON/
(177)		PARTAB	BLKDAT	337663233 /THETA/
(178)		PARTAB	BLKDAT	340267205 /TRACE/
(179)		PARTAB	BLKDAT	4330418566 /DBGOFF/
(180)		PARTAB	BLKDAT	5772186885 /EXCITE/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
(181)		PARTAB	BLKDAT	6463972100 /FARFLD/
(182)		PARTAB	BLKDAT	7604027476 /GEODAT/
(183)		PARTAB	BLKDAT	15121015556 /NERFLD/
(184)		PARTAB	BLKDAT	28122550547 /ZLOADS/
(185)		PARTAB	BLKDAT	595 /IS/
(186)		PARTAB	BLKDAT	66964 /PIV/
(187)		PARTAB	BLKDAT	215 /CW/
(188)		PARTAB	BLKDAT	1239 /SW/
(189)		PARTAB	BLKDAT	68690768 /ZMAT/
(190)		PARTAB	BLKDAT	2167947860 /BANDIT/
(191)		PARTAB	BLKDAT	581911 /BNDW/
(192)		PARTAB	BLKDAT	5772186908 /EXCIT1/
(193)		PARTAB	BLKDAT	5772186909 /EXCIT2/
(194)		PARTAB	BLKDAT	19651368084 /RSTART/
(195)		PARTAB	BLKDAT	5846147 /VSRC/
(196)		PARTAB	BLKDAT	1389699 /ESRC/
(197)		PARTAB	BLKDAT	4739140 /READ/
(198)		PARTAB	BLKDAT	4243 /ABS/
(199)		PARTAB	BLKDAT	390632709 /WRITE/
(200)		PARTAB	BLKDAT	361043 /AXIS/
(201)		PARTAB	BLKDAT	279 /DW/
(202)		PARTAB	BLKDAT	5247443 /TAGS/
(203)		PARTAB	BLKDAT	269 /DM/
(204)		PARTAB	BLKDAT	4268803 /PRLC/
(205)		PARTAB	BLKDAT	5055235 /SRLC/
(206)		PARTAB	BLKDAT	274 /DR/
(207)		PARTAB	BLKDAT	280 /DX/
(208)		PARTAB	BLKDAT	276 /DT/
(209)		PARTAB	BLKDAT	281 /DY/
(210)		PARTAB	BLKDAT	272 /DP/
(211)		PARTAB	BLKDAT	282 /DZ/
(212)		PARTAB	BLKDAT	15388140108 /NUMFIL/
(213)		PARTAB	BLKDAT	5280581 /TIME/
(214)		PARTAB	BLKDAT	914 /NR/
(215)		PARTAB	BLKDAT	324015379 /STATS/
(216)		PARTAB	BLKDAT	4798029 /RSYM/
(217)		PARTAB	BLKDAT	4273741 /PSYM/
(218)		PARTAB	BLKDAT	1025 /PA/
(219)		PARTAB	BLKDAT	1178 /RZ/
(220)		PARTAB	BLKDAT	537733 /BCRE/
(221)		PARTAB	BLKDAT	38021 /IRE/
(222)		PARTAB	BLKDAT	66693 /PRE/
(223)		PARTAB	BLKDAT	20490261396 /SETINT/
(224)		PARTAB	BLKDAT	1042 /PR/
(225)		PARTAB	BLKDAT	1028 /PD/
(226)		PARTAB	BLKDAT	1156 /RD/

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(227)	PARTAB	BLKDAT	1170 /RR/
	(228)	PARTAB	BLKDAT	1036 /PL/
	(229)	PARTAB	BLKDAT	338 /ER/
	(230)	PARTAB	BLKDAT	324 /ED/
	(231)	PARTAB	BLKDAT	217 /CY/
	(232)	PARTAB	BLKDAT	1155 /RC/
	(233)	PARTAB	BLKDAT	210 /CR/
	(234)	PARTAB	BLKDAT	196 /CD/
	(235)	PARTAB	BLKDAT	259 /DC/
	(236)	PARTAB	BLKDAT	1027 /PC/
	(237)	PARTAB	BLKDAT	29956 /GTD/
	(238)	PARTAB	BLKDAT	845 /MM/
	(239)	PARTAB	BLKDAT	341 /EU/
	(240)	PARTAB	BLKDAT	339 /ES/
	(241)	PARTAB	BLKDAT	329 /EI/
	(242)	PARTAB	BLKDAT	323 /EC/
	(243)	PARTAB	BLKDAT	65810 /PDR/
	(244)	PARTAB	BLKDAT	6644879444 /FLDMAT/
	(245)	PARTAB	BLKDAT	9984545047 /ISHADW/
	(246)	PARTAB	BLKDAT	14211437317 /MODULE/
	(247-250)	PARTAB	BLKDAT	4*0
NCOL		SCNPAR	BLKDAT	1
NCOM		SCNPAR	BLKDAT	1
NCOMCH		SCNPAR	BLKDAT	\$
NCOMMA		SCNPAR	BLKDAT	4
NCON		SCNPAR	BLKDAT	1
NCONCH		SCNPAR	BLKDAT	*
NCON1		SCNPAR	BLKDAT	2
NCOX		JUNCOM		
NCOZ		JUNCOM		
NDATBL	(1-480)	PARTAB	BLKDAT	0
NDATMX		PARTAB	BLKDAT	60
NDEBUF		DEFDAT	BLKDAT	0
NDEBUG		SCNPAR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NDFILE	(1-99)	IOFLES	BLKDAT	0
NDIG		SCNPAR	BLKDAT	0
NDIGIT		SCNPAR	BLKDAT	2
NDTASK		SCNPAR	BLKDAT	10
NDXBLK		SEGMNT		
NENDCD		SCNPAR	BLKDAT	\$
NEOFLG		SCNPAR	BLKDAT	0
NERCL1		INPERR	BLKDAT	1
NERCOD		INPERR	BLKDAT	2
NERCON		INPERR	BLKDAT	3
NERDPN		INPERR	BLKDAT	4
NEREOF		INPERR	BLKDAT	5
NEREXD		INPERR	BLKDAT	6
NEREXF		INPERR	BLKDAT	7
NEREXP		INPERR	BLKDAT	8
NERINT		INPERR	BLKDAT	9
NERNAM		INPERR	BLKDAT	10
NF	(1-10)	SCNPAR		
NFILES		IOFLES	BLKDAT	99
NFINCD		SCNPAR	BLKDAT	0
NFRAC		SCNPAR	BLKDAT	0
NILEGL		INPERR	BLKDAT	11
NINT		SCNPAR	BLKDAT	1
NLETR		SCNPAR	BLKDAT	1

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NLOOPS	(1-400)	PARTAB	BLKDAT	0
NMNAMS	(1-50)	ADEBUG	BLKDAT	0
NMSPTR		ADEBUG	BLKDAT	1
NMTIMS	(1-50)	ADEBUG	BLKDAT	0
NOEND		INPERR	BLKDAT	12
NOGOFG		ADEBUG	BLKDAT	0
NOMTCH		SCNPAR		
NOPCOD		ADEBUG	BLKDAT	-999999
NOSTAT		ADEBUG	BLKDAT	.TRUE.
NOTASK		INPERR	BLKDAT	13
NPAREN		SCNPAR	BLKDAT	5
NPARGL		PARTAB		
NPATCH		SEGMNT	BLKDAT	0
NPDATA		PARTAB		
NPEARG		INPERR	BLKDAT	1
NPEDPC		INPERR	BLKDAT	2
NPEDPL		INPERR	BLKDAT	4
NPEDRM		INPERR	BLKDAT	3
NPEDUM	(1-27)	INPERR		
NPEIFO		INPERR	BLKDAT	21
NPEKWD		INPERR	BLKDAT	18
NPELAB		INPERR	BLKDAT	5
NPELIT		INPERR	BLKDAT	6
NPELNF		INPERR		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NPELNL		INPERR	BLKDAT	7
NPELOO		INPERR	BLKDAT	8
NPELOP		INPERR	BLKDAT	9
NPELST		INPERR	BLKDAT	20
NPENOI		INPERR	BLKDAT	10
NPENOM		INPERR	BLKDAT	11
NPENRG		INPERR	BLKDAT	12
NPENTK		INPERR	BLKDAT	13
NPENUM		INPERR	BLKDAT	14
NPERGE		INPERR	BLKDAT	19
NPEROD		SCNPAR	BLKDAT	7
NPESCN		INPERR	BLKDAT	22
NPESEX		INPERR	BLKDAT	15
NPESYM		INPERR	BLKDAT	16
NPETSK		INPERR	BLKDAT	17
NPLITN		PARTAB		
NPLOOP		PARTAB		
NPRODF		DEFDAT	BLKDAT	5
NPRPT		PNTTBL	BLKDAT	4
NPRSEG		SEGMENT	BLKDAT	11
NPRSER		SCNPAR	BLKDAT	0
NPTASK		PARTAB		
NPTBUF		PNTTBL	BLKDAT	0
NRAO		SEGMENT		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NRDCDF		SCNPAR		
NRESTF		SCNPAR		
NRNAMS	(1-200)	ADEBUG	BLKDAT	0
NRSUBS		ADEBUG	BLKDAT	190
NRTIMS	(1-200)	ADEBUG	BLKDAT	0
NSCNER		SCNPAR	BLKDAT	0
NSCOL		SCNPAR		
NSEG		FLDCOM		
NSHFTS		ADEBUG	BLKDAT	1000
NTAB		SCNPAR	BLKDAT	1
NTALPH		ADEBUG	BLKDAT	6
NTASK		SCNPAR	BLKDAT	0
NTASKS		PARTAB	BLKDAT	47
NTDM		PARTAB	BLKDAT	44
NTDPF1		ADEBUG	BLKDAT	9
NTDPF2		ADEBUG	BLKDAT	10
NTEMPS		TEMPO1	BLKDAT	5500
NTEND		ADEBUG	BLKDAT	1
NTERR		ADEBUG	BLKDAT	2
NTFLPT		ADEBUG	BLKDAT	8
NTINT		ADEBUG	BLKDAT	7
NTKEYW		ADEBUG	BLKDAT	5
NTPGTD		GTDOAT	BLKDAT	3

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NTSFMT	(1-5)	PARTAB	BLKDAT	4,2,-2,-1,-2
	(6-10)	PARTAB	BLKDAT	4,3,-1,-2,41
	(11-14)	PARTAB	BLKDAT	0
	(15-20)	PARTAB	BLKDAT	4,5,60,44,117,0
	(21-25)	PARTAB	BLKDAT	0,0,0,0,0
	(26-29)	PARTAB	BLKDAT	3,7,-1,-2
	(30-34)	PARTAB	BLKDAT	4,8,21568,16246,-17
	(35-39)	PARTAB	BLKDAT	4,9,-1,-2,65
	(40-41)	PARTAB	BLKDAT	1,10
	(42-47)	PARTAB	BLKDAT	0,0,0,0,0,0
	(48-52)	PARTAB	BLKDAT	9,13,-2,60,51
	(53-57)	PARTAB	BLKDAT	85,72,47,73,48
	(58-61)	PARTAB	BLKDAT	0,0,0,0
	(62-66)	PARTAB	BLKDAT	9,15,-2,-1,-2
	(67-71)	PARTAB	BLKDAT	-2,-1,-6,17,18
	(72-74)	PARTAB	BLKDAT	2,16,-15
	(75-77)	PARTAB	BLKDAT	2,17,-14
	(78-81)	PARTAB	BLKDAT	3,19,-1,-2
	(82-86)	PARTAB	BLKDAT	8,21,-2,60,51
	(87-90)	PARTAB	BLKDAT	72,47,73,48
	(91-95)	PARTAB	BLKDAT	4,38,-1,60,-9
	(96-98)	PARTAB	BLKDAT	0,0,0
	(99-102)	PARTAB	BLKDAT	0
	(103-106)	PARTAB	BLKDAT	2,24,-11,0
	(107-110)	PARTAB	BLKDAT	2,25,-11,0
	(111-115)	PARTAB	BLKDAT	0
	(116-121)	PARTAB	BLKDAT	0
	(122-126)	PARTAB	BLKDAT	0
	(127-131)	PARTAB	BLKDAT	0,0,0,0,0
	(132-136)	PARTAB	BLKDAT	4,29,60,144,45
	(137-142)	PARTAB	BLKDAT	7,30,-16,-165,72,47
	(143-149)	PARTAB	BLKDAT	73,48,0,4,31,-2,-1
	(150-156)	PARTAB	BLKDAT	-2,6,32,-1,85,77,70
	(157-161)	PARTAB	BLKDAT	42,3,33,-1,-2
	(162-165)	PARTAB	BLKDAT	2,34,-10,0
	(166-169)	PARTAB	BLKDAT	2,35,-6,-11
	(170-173)	PARTAB	BLKDAT	0,0,0,0
	(174-178)	PARTAB	BLKDAT	8,39,6645351,14,52
	(179-182)	PARTAB	BLKDAT	104,105,106,107
	(183-187)	PARTAB	BLKDAT	7,45,-1,-2,52
	(188-192)	PARTAB	BLKDAT	88,10572,-10,10,46
	(193-197)	PARTAB	BLKDAT	-1,-2,52,442769,-165
	(198-201)	PARTAB	BLKDAT	70,83,66,50
	(202-206)	PARTAB	BLKDAT	23,43,-1,-2,3815483
	(207-211)	PARTAB	BLKDAT	3553081,-9,-5,-9,-5
	(212-216)	PARTAB	BLKDAT	-9,-5,-9,-5,-9

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
	(217-221)	PARTAB	BLKDAT	-5,-9,-5,-9,-5
	(222-225)	PARTAB	BLKDAT	-9,-5,-9,-5
	(226-230)	PARTAB	BLKDAT	11,42,-1,14,52
	(231-235)	PARTAB	BLKDAT	27999,26732,-5,-5,-5
	(236-237)	PARTAB	BLKDAT	21068,-10
	(238-239)	PARTAB	BLKDAT	0
	(240-242)	PARTAB	BLKDAT	2,47,-13
	(243-247)	PARTAB	BLKDAT	9,23,-1,3553594,47
	(248-252)	PARTAB	BLKDAT	48,72,73,10572,-10
	(253-300)	PARTAB	BLKDAT	0
NTSKMX		PARTAB	BLKDAT	100
NTSKTB	(1-100)	PARTAB	BLKDAT	0
NTSYMB		ADEBUG	BLKDAT	4
NTTASK		ADEBUG	BLKDAT	3
NU	(1-3)	FLDVAL		
NUMARG		ARGCOM	BLKDAT	0
NUMCHK		SYSFIL	BLKDAT	0
NUMCYL		GTDDAT	BLKDAT	0
NUMECP		GTDDAT	BLKDAT	0
NUMGTD		GTDDAT	BLKDAT	0
NUMPLT		GTDDAT	BLKDAT	0
NUMPTS		PNTTBL	BLKDAT	0
NUMSEG		SEGMNT	BLKDAT	0
NUMWIP		PARTAB	BLKDAT	34
NUMWRD		ADEBUG		
NVAL	(1-256)	SCNPAR	BLKDAT	0
NVALMX		SCNPAR	BLKDAT	256
NWDSIZ		ADEBUG	BLKDAT	36

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
NWIRE		SEGMNT	BLKDAT	0
NWLKOV		ADEBUG		
NXTSYM		SYMSTR	BLKDAT	1
NXTTSK		ADEBUG		
NYRSYM		SEGMNT		
PAREA		SEGMNT		
PDCR	(1-168)	BNDDCL		
PHSR		DIR		
PHWR	(1-84)	BRNPHW		
PI		PIS	BLKDAT	3.14159265
PRAD		OUTPTD		
PTTBLE	(1-400)	PNTTRL		EQUIVALENCE IPTTBL
PX		AMPZIJ		
PY		AMPZIJ		
RAD	(1-10)	SEGMNT	BLKDAT	0
RANG		OUTPTD		
REFH		AMPZIJ		
REFV		AMPZIJ		
RG		FUDG		
RGII		FUGDI		
RGJ		FUDGJ		
RHK		TMI		
RHO1		FUDG		
RHO1I		FUDGI		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
RHO1J		FUDGJ		
RHOX		AMPZIJ		
RHOY		AMPZIJ		
RHOZ		AMPZIJ		
RKB2		TIM		
ROX		CSYSTEM		
ROY		CSYSTEM		
ROZ		CSYSTEM		
RPD		PIS	BLKDAT	0.0174532925
RSTART		SYSFIL	BLKDAT	.FALSE.
RSTRTA		SYSFIL	BLKDAT	.FALSE.
RSUMS	(1-200)	ADEBUG	BLKDAT	0
RTINS	(1-200)	ADEBUG	BLKDAT	0
S		AMPZIJ		
SABI		AMPZIJ		
SABJ		AMPZIJ		
SALPI		AMPZIJ		
SALPJ		AMPZIJ		
SALPR		AMPZIJ		
SAS		GTD		
SASP		GTD		
SCALE		SEGMNT	BLKDAT	1
SCALES	(1,2,3)	GEODAT	BLKDAT	.3048,.0254,100
SEGTBL	(1-5500)	SEGMNT		EQUIVALENCE ISGTBL

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
SIGMA		AMPZIC	BLKDAT	0.0
SMAG		FUDG		
SMAGI		FUDGI		
SMAGJ		FUDGJ		
SNC	(1-2)	GEOMEL		
SNFF		DIST		
SORT		GEODAT		
SP1		SRC		
SP2		SRC		
SPS		DIR		
STHS		DIR		
SYSLST	(1-20)	SYSFIL		EQUIVALENCE LSTSYS
TDCR	(1-168)	BNDCL		
TEMP	(1-5500)	TEMP01		EQUIVALENCE ITEMP
THSR		DIR		
THTN		CYLIN		
THTP		CYLIN		
TIMTGO		SYSFIL	BLKDAT	-1.
TOP		TOPD	BLKDAT	(-.70710678,.70710678)
TPCEPI		AMPZIJ	BLKDAT	59.958544
TPI		PIS	BLKDAT	6.28318531
TRO	(1-3)	XSTR1		
TRACST		ADEBUG		
TRAN		FUDG		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
TRANI		FUDGI		
TRANJ		FUDGJ		
TSUMS	(1-50)	ADEBUG	BLKDAT	0
TTINS	(1-50)	ADEBUG	BLKDAT	0
TWOPI		AMPZIJ	BLKDAT	6.283185
T1XI		AMPZIJ		
T1XJ		AMPZIJ		
T1YI		AMPZIJ		
T1YJ		AMPZIJ		
T1ZI		AMPZIJ		
T1ZJ		AMPZIJ		
T2XI		AMPZIJ		
T2XJ		AMPZIJ		
T2YI		AMPZIJ		
T2YJ		AMPZIJ		
T2ZI		AMPZIJ		
T2ZJ		AMPZIJ		
UCD	(1-84)	BNDRCL		
UDC	(1-2)	BNDCL		
UPDBLK		SEGMNT	BLKDAT	.TRUE.
U1	(1-2)	FLDVAL		
V	(1-252)	GEOPLA		
VAL	(1-256)	SCNPAR	BLKDAT	EQUIVALENCE NVAL
VCD	(1-84)	BNDRCL		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
VDC	(1-84)	BNDACL		
VMAG	(1-84)	EDMAG		
VN	(1-42)	GEOPLA		
VP	(1-252)	GEOPLA		
VTI	(1-28)	BNDICL		
VTs	(1-2)	BNDsCL		
VXI	(1-126)	IMAINF		
VXIC	(1-18)	IMCINF		
VXS	(1-9)	SORINF		
VXSS	(1-9)	XSTR1		
V1	(1-2)	FLDVAL		
WAVLGH		AMPZIJ		
WAVNUM		AMPZIJ		
WL		OUTPTD		
WORDS	(1-20)	ADEBUG		EQUIVALENCE IWORDS
W1	(1-2)	FLDVAL		
X		FLDVAL		
X	(1-252)	GEOPLA		
XCL	(1-3)	ROTRDT		
XI		AMPZIJ		
XI	(1-588)	IMAINF		
XIC	(1-6)	IMCINF		
XPC	(1-3)	PATDAT		
XJ		AMPZIJ		

VARIABLE	(SUBSCRIPT)	COMMON	WHERE SET	VALUE
XR	(1-3)	FUDG		
XRI	(1-3)	FUDGI		
XRJ	(1-3)	FUDGJ		
XS	(1-3)	SORINF		
XSS	(1-3)	XSTR1		
XX	(1-252)	PLAIN		
Y		FLDVAL		
YCL	(1-3)	ROTRDT		
YI		AMPZIJ		
YPC	(1-3)	PATDAT		
YJ		AMPZIJ		
Z		FLDVAL		
ZC	(1-2)	GEOMEL		
ZCL	(1-3)	ROTRDT		
ZCN		CYLIN		
ZCP		CYLIN		
ZERO		ADEBUG	BLKDAT	1.E-7
ZI		AMPZIJ		
ZJ		AMPZIJ		
ZPC	(1-3)	PATDAT		
ZPK		TMI		
ZRATI		AMPZIJ		

GTD MODULE

[illegible]

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	F'DCON	FLOWAL	FLOXZ	FINANG	FLOG	FLOGI	FLOGJ	GEODAT	GEOMEL	GEOPLA	GROUND	GTD	GTDDAT	HITPLT	IPAINF	IPCINF	INPERR	INTHAT	IOFILES	JUNCOM	LAST	LOCBY	LOGDIF	LPLCY	LSHOP	LSHOT	
GEMACS																											GEMACS
BLKDAT																											BLKDAT
ASSIGN																											ASSIGN
BABS																											BABS
BEXP																											BEXP
BLOGIO																											BLOGIO
BTAN2																											BTAN2
CAPINT																											CAPINT
CLSFIL																											CLSFIL
CNVTST																											CNVTST
CONVRT																											CONVRT
CYAXIS																											CYAXIS
CYLINT																											CYLINT
DFPTCL																											DFPTCL
DFPTWD																											DFPTWD
DFRFPT																											DFRFPT
DICOEF																											DICOEF
DIFPLT																											DIFPLT
DMPDRV																											DMPDRV
DPI																											DPI
DPLRCL																											DPLRCL
DPLRPL																											DPLRPL
DPTNFW																											DPTNFW
DQG32																											DQG32
DW																											DW
DZCOEF																											DZCOEF
ENDIF																											ENDIF
ERROR																											ERROR
ESPARH																											ESPARH
EXCDRV																											EXCDRV
FCT																											FCT
FPCT																											FPCT
FKARG																											FKARG
FRY																											FRY
FLDDRV																											FLDDRV
FNDREC																											FNDREC
FRNELS																											FRNELS
FUN																											FUN
GEOM																											GEOM
GEOMC																											GEOMC

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	MODULE	NEAR	OUTPTD	PARTAD	PATDAT	PIS	PLAIN	PNTTBL	ROTROT	SAFE	SCNPAR	SECHNT	SORINF	SOURSF	SRC	SRFACC	SURFAC	SYNSTR	SYSFIL	TEMPDI	TEST	THPHUV	TMI	TOPD	TSKPTR	XSTRI	
GEMACS	•		•							•								•	•								GEMACS
BLKDAT	•		•		•		•			•	•						•	•	•				•				BLKDAT
ASSIGN																		•									ASSIGN
BABS																											BABS
BEXP					•																						BEXP
BLOGIO																											BLOGIO
BTAN2					•																						BTAN2
CAPINT																				•							CAPINT
CLSFIL																											CLSFIL
CNVTST																											CNVTST
CONVRT			•																								CONVRT
CYAXIS																											CYAXIS
CYLINT					•															•							CYLINT
DFPTCL		•			•							•															DFPTCL
DFPTWO		•																									DFPTWO
DFRFPT					•							•															DFRFPT
DICOEF					•																•		•				DICOEF
DIFPLT		•			•							•				•				•	•						DIFPLT
DMPDRV			•							•									•								DMPDRV
DPI					•															•			•				DPI
DPLRCL		•			•							•									•	•					DPLRCL
DPLRPL		•			•							•				•					•	•					DPLRPL
DPTNFW																											DPTNFW
DQ632																											DQ632
DW																											DW
DZCOEF					•																						DZCOEF
ENDIF		•			•							•									•	•					ENDIF
ERROR																		•									ERROR
ESPARH			•																					•			ESPARH
EXCDRV			•								•									•							EXCDRV
FCT					•																						FCT
FFCT					•																						FFCT
FKARG					•																						FKARG
FKY					•																						FKY
FLDRV			•								•							•	•								FLDRV
FNDREC			•																								FNDREC
FRNELS					•																•						FRNELS
FUN																											FUN
GEOM					•			•			•	•			•					•							GEOM
GEOMC					•						•	•		•						•							GEOMC

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	AGEBUS	AMPZLU	ANUM	ARECOM	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL	BNDCL</
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COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	FLDCON	FLDYAL	FLDAYZ	FLMANS	FUDG	FUDGI	FUDGI	GEODAT	GEONEL	GEOPLA	GROUND	GTD	GTDAT	HITPLT	IMAINF	INCINF	INPERR	INTMAT	IOFLES	JUNCON	LAST	LOCBY	LOCDF	LPLCY	LSDOP	LSDOT	
GEOMPC			•					•	•					•	•						•		•	•	•		GEOMPC
GETARG																											GETARG
GETFLD	•																										GETFLD
GETGEO								•				•															GETGEO
GETKWD																•											GETKWD
GETKWW																			•								GETKWW
GETSEG								•				•															GETSEG
GETSYM																			•								GETSYM
GTDORV		•	•					•	•	•	•	•		•							•	•	•	•	•	•	GTDORV
IBITCK																											IBITCK
IMAGE									•																		IMAGE
IMCDIR																											IMCDIR
IMDIR									•																		IMDIR
INCFLD																											INCFLD
INTPLT																											INTPLT
JNCSUM																											JNCSUM
LUSTAT																											LUSTAT
MOVFIL																			•								MOVFIL
NANDB								•																			NANDB
NFD																											NFD
NTGRAN																											NTGRAN
OPNFIL																			•								OPNFIL
PFUN																											PFUN
PLAINT									•	•			•										•	•			PLAINT
POLYRT																											POLYRT
POSTIP																•											POSTIP
PRTKJ								•									•										PRTKJ
PUTKWW																			•								PUTKWW
PUTSEG								•				•															PUTSEG
PUTSYM																			•								PUTSYM
QFUN																											QFUN
RADCV								•			•																RADCV
RCLDPL								•	•																		RCLDPL
RCLRPL						•		•	•																		RCLRPL
RDEFIL																			•								RDEFIL
REFBP									•																		REFBP
REFCAP								•							•												REFCAP
REFCYL				•				•																			REFCYL
REFPLA		•						•						•													REFPLA

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	MODULE	NEAR	OUTPTD	PARTAB	PATDAT	PIS	PLAIN	PMTBL	ROTROT	SAFE	SCNPAR	SEGANT	SORINF	SOURSF	SRC	SRFACC	SURFAC	SYNSTR	SYSEIL	TEMPDI	TEST	TMPHUV	THI	TOPD	TSMPTD	ISTR	
GEOMPC					•				•			•	•		•	•				•							GEOMPC
GETARG			•																								GETARG
GETFLD																											GETFLD
GETGEO			•								•																GETGEO
GETKWD			•							•																	GETKWD
GETKWW			•							•								•									GETKWW
GETSEG											•																GETSEG
GETSYM			•														•	•									GETSYM
GTDDRV	•	•		•	•	•		•	•		•	•	•	•	•	•				•	•				•		GTDDRV
IBITCK																											IBITCK
IMAGE																											IMAGE
IMCDIR																											IMCDIR
IMDIR																											IMDIR
INCFLD	•				•							•								•	•						INCFLD
INTPLT																											INTPLT
JNC SUM																											JNC SUM
LUSTAT																											LUSTAT
MOVFIL																			•								MOVFIL
NANDB																											NANDB
NFD																											NFD
NTGRAN																						•					NTGRAN
OPNFIL			•															•									OPNFIL
PFUN					•																						PFUN
PLAINT					•															•							PLAINT
POLYRT																											POLYRT
POSTIP			•							•																	POSTIP
PRTKJ			•																								PRTKJ
PUTKWW			•							•								•									PUTKWW
PUTSEG			•								•																PUTSEG
PUTSYM			•														•	•	•								PUTSYM
QFUN					•																						QFUN
RADCV																											RADCV
RCLDPL	•				•							•								•	•						RCLDPL
RCLRPL	•				•							•								•	•						RCLRPL
RDEFIL																		•									RDEFIL
REFBP					•																						REFBP
REFCAP	•				•							•								•							REFCAP
REFCYL	•				•							•								•	•						REFCYL
REFPLA	•				•							•								•							REFPLA

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

[illegible]

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONTINUED)

	FLDCON	FLDVAL	FLDXYZ	FINANG	FUDG	FUDGI	FUDGJ	GEODAT	GEONEL	GEOPLA	GROUND	GTD	GTDAT	HITPLT	IMAINF	INCINF	INPERP	INTMAT	IOPLES	JUNCON	LAST	LOCBY	LOGDIF	LPLCY	LSHDP	LSHOT	
RDFFIN								•																			RDFFIN
RDFDPT								•	•																		RDFDPT
RFPTCL								•	•	•				•													RFPTCL
ROMBNT																											ROMBNT
ROTATE																											ROTATE
ROTRAN																											ROTRAN
RPLDPL									•					•								•					RPLDPL
RPLRCL					•			•	•					•													RPLRCL
RPLRPL									•					•													RPLRPL
RPLSCL					•			•			•			•													RPLSCL
RWCOMS	•						•					•					•	•	•								RWCOMS
RWFILS																•		•									RWFILS
SCLRPL						•		•	•		•																SCLRPL
SCTCYL				•				•			•																SCTCYL
SEJCON							•													•							SEJCON
SET							•										•										SET
SHELL																											SHELL
SMAGNF																											SMAGNF
SOURCE																											SOURCE
SOURCP																											SOURCP
STATFN																											STATFN
STATIN																											STATIN
STATOT																											STATOT
STRTUP																•	•	•									STRTUP
SYMDEF																		•									SYMDEF
SYMUPD																			•								SYMUPD
SYSCHK																											SYSCHK
SYSRTN																											SYSRTN
TANG							•																				TANG
TICHEK																											TICHEK
TPNFLD																											TPNFLD
TRCEBK																											TRCEBK
TSKXQT																	•										TSKXQT
WLKBCK																											WLKBCK
WRTCHK																			•								WRTCHK
WRTFIL																			•								WRTFIL
XYZFLD		•																									XYZFLD
ZGDRV							•													•							ZGDRV
ZIJDV							•				•						•										ZIJDV
ZZXDUM																											ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
GTD MODULE
(CONCLUDED)

	MODULE	NEAR	OUTPTD	PARTAG	PATDAT	PIS	PLAIN	PNTTBL	ROTRDT	SAVE	SCMPAR	SEGMENT	SORINF	SOURSF	SRC	SRFACC	SURFAC	SYMSTR	SYSFIL	TEMPDI	TEST	THPHUV	TMI	TOPD	TSKPTR	XSTRV	
RDFFIN																											RDFFIN
RDFPPT		•			•							•															RDFPPT
RFPTCL					•							•															RFPTCL
ROMBNT																											ROMBNT
ROTATE																											ROTATE
ROTRAN								•												•							ROTRAN
RPLDPL		•			•							•				•				•	•						RPLDPL
RPLRCL		•			•							•								•	•						RPLRCL
RPLRPL		•			•							•								•							RPLRPL
RPLSCL		•			•							•								•							RPLSCL
RWCOMS	•		•							•	•						•	•	•								RWCOMS
RWFILS			•							•	•								•								RWFILS
SCLRPL		•			•							•								•	•						SCLRPL
SCTCYL		•			•							•								•							SCTCYL
SEJCON											•																SEJCON
SET																											SET
SHELL																											SHELL
SMAGNF																											SMAGNF
SOURCE					•									•								•					SOURCE
SOURCP					•									•													SOURCP
STATFN	•																	•									STATFN
STATIN																											STATIN
STATOT																											STATOT
STRTUP	•		•							•	•							•									STRTUP
SYMDEF			•														•	•	•								SYMDEF
SYMUPD			•																								SYMUPD
SYSCHK																			•								SYSCHK
SYSRTN																											SYSRTN
TANG					•																						TANG
TICHEK																											TICHEK
TPNFLO																											TPNFLO
TRCEBK																		•									TRCEBK
TSKXQT			•							•	•							•						•			TSKXQT
WLKBCK																		•									WLKBCK
WRTCHK	•		•								•							•	•								WRTCHK
WRTFIL																		•									WRTFIL
XYZFLO																											XYZFLO
ZGDRV											•							•									ZGDRV
ZI DRV			•								•							•	•								ZI DRV
ZZXDUM			•																								ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
INPUT MODULE

	ADEBUG	AMPZLI	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMINT	SYMSTR	SYSFIL	TEMP01	
GEMACS	•		•		•			•		•		•	•		•			•	•		GEMACS
BLKDAT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BLKDAT
ASSIGN	•																	•			ASSIGN
BUBBLE	•					•	•			•				•		•		•			BUBBLE
CLSFIL	•									•											CLSFIL
CNVGTD	•					•										•					CNVGTD
CONVRT	•												•								CONVRT
COORDS	•		•																		COORDS
CYLNDR	•					•	•								•	•					CYLNDR
DMPDRV	•		•										•		•				•		DMPDRV
EFDGEO	•		•										•		•						EFDGEO
ENDCAP	•					•	•								•	•					ENDCAP
ERROR	•									•								•			ERROR
FABLO2	•														•						FABLO2
FLTPLT	•																				FLTPLT
FNDARG	•							•					•		•						FNDARG
FNDREC	•									•			•								FNDREC
GEODRV	•		•	•	•	•	•			•			•	•	•	•		•	•		GEODRV
GETARG	•		•										•								GETARG
GETGEO	•		•										•			•					GETGEO
GETKWD	•							•					•		•						GETKWD
GETKWV	•	•								•			•		•			•			GETKWV
GETPNT	•													•							GETPNT
GETSEG	•					•	•									•					GETSEG
GETSYM	•									•			•				•	•			GETSYM
GTDCS	•		•																		GTDCS
IBITCK	•																				IBITCK
INPDRV	•							•					•		•			•			INPDRV
JCTION	•					•								•		•					JCTION
LITSCH	•							•					•		•						LITSCH
LNKGTD	•					•	•									•					LNKGTD
LNKJCT	•					•										•					LNKJCT
LUSTAT																					LUSTAT
MOVFIL	•									•									•		MOVFIL
OPNFIL	•		•							•			•					•			OPNFIL
PAGPLT	•																				PAGPLT
PARSE	•							•					•		•						PARSE
PATCH	•					•							•		•	•					PATCH
PLATE	•					•	•								•	•					PLATE
PLIST	•							•					•		•						PLIST

COMMON BLOCK/SUBROUTINE LOCATION INDEX
INPUT MODULE
(CONCLUDED)

	ADEBUG	AMPZU	ARGCOM	CSYSTEM	DEFDAT	FLDCOM	GEODAT	GTDDAT	IMPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMENT	SYMSTR	SYSFIL	TEMP01	
PLTDRV	•		•			•							•			•			•		PLTDRV
PLTSEG	•					•	•						•			•					PLTSEG
POSTIP	•							•					•		•						POSTIP
POSTPR	•							•					•		•						POSTPR
PREPAR	•							•					•		•						PREPAR
PRESCN	•												•					•			PRESCN
PRTGTD	•					•	•									•					PRTGTD
PUTKWV	•	•								•			•		•			•			PUTKWV
PUTPNT	•					•								•		•					PUTPNT
PUTSEG	•					•	•						•			•					PUTSEG
PUTSYM	•									•			•				•	•	•		PUTSYM
RDEFIL	•									•								•			RDEFIL
REFLCT																					REFLCT
RESTRT	•		•					•		•			•		•	•		•	•		RESTRT
ROTATE	•																				ROTATE
RWCOMS	•	•	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•		RWCOMS
RWFILS	•							•		•			•		•	•			•		RWFILS
SCALE2	•																				SCALE2
SCALE3	•																				SCALE3
SCAN	•							•					•		•						SCAN
SHELL	•																				SHELL
STATFN	•											•						•			STATFN
STATIN	•																				STATIN
STATOT	•																				STATOT
SUBPAT	•					•	•			•			•			•		•			SUBPAT
SYMDEF	•		•							•			•				•	•	•		SYMDEF
SYMLIT	•							•					•		•						SYMLIT
SYMSCH	•							•					•		•						SYMSCH
SYMUPD	•									•			•								SYMUPD
SYSCHK	•																	•			SYSCHK
SYSRTN	•																				SYSRTN
TICHEK																					TICHEK
TRCEBK	•																	•			TRCEBK
TRNLAT	•																				TRNLAT
TSKXQT	•		•										•		•	•		•			TSKXQT
WLKBCK	•																	•			WLKBCK
WRTCHK	•									•		•	•			•		•	•		WRTCHK
WRTFIL	•									•								•			WRTFIL
WYRDRV	•		•	•	•	•	•						•	•	•	•					WYRDRV
ZZXDUM	•		•										•								ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
MOM MODULE

	ADEBUG	AMPZUJ	ANUM	ARGCOM	CSYSTM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMNT	SYMSTR	SYSFIL	TEMP01	TMI	
GEMACS	•			•					•		•		•	•		•			•	•			GEMACS
BLKDAT	•	•		•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•			BLKDAT
ASSIGN	•																		•				ASSIGN
BACSUB	•			•										•									BACSUB
BANDIT	•			•										•							•		BANDIT
BMIRHS	•																						BMIRHS
CABC	•	•	•				•					•					•		•	•			CABC
CLSFIL	•										•												CLSFIL
CNTGND	•	•		•				•						•			•		•				CNTGND
CNVST	•																						CNVST
CONJUG	•																						CONJUG
CONVRT	•													•									CONVRT
DECOMP	•										•								•				DECOMP
DMPDRV	•			•										•		•					•		DMPDRV
EGFMAT	•							•		•				•							•		EGFMAT
ERROR	•										•								•				ERROR
EXCDRV	•	•		•			•	•		•				•			•		•	•			EXCDRV
FABL04	•																						FABL04
FARFLD	•	•					•										•		•	•			FARFLD
FLDDRV	•	•		•			•	•		•				•			•				•		FLDDRV
FNDREC	•										•			•									FNDREC
GETARG	•			•										•									GETARG
GETGEO	•			•				•	•					•			•						GETGEO
GETKWV	•	•									•			•		•			•				GETKWV
GETSEG	•						•	•									•						GETSEG
GETSYM	•										•			•				•	•				GETSYM
GNDREF	•	•																					GNDREF
IBITCK	•																						IBITCK
JNCSUM	•	•																					JNCSUM
LODDRV	•	•		•			•				•			•			•		•	•			LODDRV
LODSYM	•																						LODSYM
LUDDRV	•			•							•			•			•	•	•	•			LUDDRV
LUSTAT																							LUSTAT
MOVFIL	•																				•		MOVFIL
NERFLD	•	•					•										•		•	•			NERFLD
NTGRAN	•																					•	NTGRAN
NTRPLT	•	•	•									•											NTRPLT
NTRPLU	•	•																					NTRPLU
OPNFIL	•			•							•			•					•				OPNFIL
PAGPLT	•																						PAGPLT
PRTKJ	•			•			•			•				•									PRTKJ
PRTSYM	•	•		•										•							•		PRTSYM
PUTKWV	•	•									•			•		•			•				PUTKWV

COMMON BLOCK/SUBROUTINE LOCATION INDEX
MOM MODULE
(CONCLUDED)

	ADEBUG	AMPZIJ	ANUM	ARGCOM	CSYSTM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INPERR	INTMAT	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMN1	SYMSTR	SYSFIL	TEMP01	TMI	
PUTSEG	•						•	•						•			•						PUTSEG
PUTSYM	•										•			•				•	•	•			PUTSYM
RDEFIL	•										•								•				RDEFIL
REBLCK	•													•									REBLCK
ROMBNT	•																						ROMBNT
RWCOMS	•	•		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•			RWCOMS
RWFILS	•		•						•		•			•		•	•		•	•			RWFILS
SCALE2	•																						SCALE2
SCALE3	•																						SCALE3
SEJCON	•	•	•				•					•				•							SEJCON
SET	•		•				•		•														SET
SETDRV	•		•								•			•		•			•	•			SETDRV
SHELL	•																						SHELL
SMATRX	•	•																					SMATRX
SOLDRV	•	•	•				•				•			•		•	•		•	•			SOLDRV
SOLVIC	•																						SOLVIC
SOLVOC	•																						SOLVOC
SPWDRV	•	•					•										•			•			SPWDRV
STATFN	•												•						•				STATFN
STATIN	•																						STATIN
STATOT	•																						STATOT
STRTUP	•	•							•	•	•		•	•		•	•		•				STRTUP
SYMDEF	•		•								•			•				•	•	•			SYMDEF
SYMMOD	•																						SYMMOD
SYMUPD	•										•			•									SYMUPD
SYSCHK	•																		•				SYSCHK
SYSRTN	•																						SYSRTN
TICHEK																							TICHEK
TNEFLD	•	•																				•	TNEFLD
TNHFLD	•	•																				•	TNHFLD
TRCEBK	•																		•				TRCEBK
TSKXQT	•		•											•		•	•		•				TSKXQT
UNEFLD	•	•																					UNEFLD
UNHFLD	•	•																					UNHFLD
WLKBCK	•																		•				WLKBCK
WRTCHK	•										•		•	•			•		•	•			WRTCHK
WRTFIL	•										•								•				WRTFIL
WYRPAT	•	•																					WYRPAT
ZCDVR	•		•											•									ZCDVR
ZIJDRV	•	•	•				•	•		•				•			•		•	•			ZIJDRV
ZIJSET	•	•					•					•					•		•				ZIJSET
ZINT																							ZINT
ZZXDUM	•		•											•									ZZXDUM

COMMON BLOCK/SUBROUTINE LOCATION INDEX
OUTPUT MODULE

	ADEBUG	AMPZLI	ARGCOM	CSYSTM	DEFDAT	FLDCOM	GEODAT	GTDDAT	INTMAT	INPERR	IOFLES	JUNCOM	MODULE	PARTAB	PNTTBL	SCNPAR	SEGMNT	SYMSTR	SYSFIL	TEMP01	
GEMACS	•		•						•	•		•	•		•			•	•		GEMACS
BLKDAT	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	BLKDAT
ASSIGN	•																	•			ASSIGN
CLSFIL	•									•											CLSFIL
CONVRT	•												•								CONVRT
DMPDRV	•		•										•		•					•	DMPDRV
ERROR	•									•								•			ERROR
FLDDRV	•	•	•		•	•	•	•					•			•				•	FLDDRV
FLDOUT	•					•							•		•				•		FLDOUT
FNDREC	•									•			•								FNDREC
GETARG	•		•										•								GETARG
GETGEO	•		•			•	•						•			•					GETGEO
GETKWV	•	•								•			•		•			•			GETKWV
GETSEG	•					•	•									•					GETSEG
GETSYM	•									•			•				•	•			GETSYM
IBITCK	•																				IBITCK
LUSTAT																					LUSTAT
MOVFIL	•									•										•	MOVFIL
OPNFIL	•		•							•			•						•		OPNFIL
PAGPLT	•																				PAGPLT
PUTKWV	•	•								•			•		•			•			PUTKWV
PUTSYM	•									•			•				•	•	•		PUTSYM
RDEFIL	•									•								•			RDEFIL
RWCOMS	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•	•	RWCOMS
RWFILS	•		•						•	•			•		•	•		•	•	•	RWFILS
SCALE2	•																				SCALE2
SCALE3	•																				SCALE3
SET	•		•			•		•													SET
SHELL	•																				SHELL
STATFN	•											•						•			STATFN
STATIN	•																				STATIN
STATOT	•																				STATOT
STRTUP	•	•						•	•	•		•	•		•	•		•			STRTUP
SYMDEF	•		•							•			•				•	•	•		SYMDEF
SYMUPD	•									•			•								SYMUPD
SYSCHK	•																	•			SYSCHK
SYSRTN	•																				SYSRTN
TICHEK																					TICHEK
TRCEBK	•																	•			TRCEBK
TSKXQT	•		•										•		•	•		•			TSKXQT
WLKBCK	•																	•			WLKBCK
WRTCHK	•									•		•	•			•		•	•		WRTCHK
WRTFIL	•									•								•			WRTFIL
ZZXDUM	•		•										•								ZZXDUM

COMDECK ADEBUG

```

COMMON /ADBUG/ ISON, ISOFF, LTRACE
A ,LROUTN, LCALLR, LSTAT, LRTNUM, LCALLNM, NRSUBS, NRNAMS(200)
B ,NRTIMS(200), RTINS(200), RSUMS(200)
C ,NMSPTR, NMNAMS(50), NMTIMS(50), TTINS(50), TSUMS(50)
D ,NAMRTN(28), INDXWB, MXWALK, NWLKO
E ,MXSUBS, NSHFTS, ITASK, NXTTSK, IERRF
F ,ICALL ,ISUBR, NUMWRD, WORDS(20), LSTIOD
G ,LUTASK, LUPRNT, LUDBUG
H ,NOPCOD, ZERO
I , NTEND, NTERR, NTTASK, NTSYMB, NTKEYW, NTALPH, NTINT
J ,NTFLPT, NTDPF1, NTDPF2
K ,MACHIN, NWDSIZ, NBYTSZ, NBYTES, MANTSA, LB
L ,IRSTRT, IWRCK, IMDCHK, DBGPR
R ,NOSTAT, TRACST, IDUMMY(9)

```

C

```

DIMENSION IWORDS(20)
EQUIVALENCE (WORDS(1), IWORDS(1) )
LOGICAL DBGPR
LOGICAL NOSTAT
LOGICAL TRACST
DIMENSION LSAVE(5)

```

<u>SYMBOL</u>	<u>DEFINITION</u>
DBGPR	Logical flag for printing debug output
ICALL	Debug locator within a subroutine
IDUMMY	Spare locations
IERRF	Integer error flag
IMDCHK	Flag indicating an end-of-module checkpoint is being written
INDXWB	Index to the walk-back table
IRSTRT	Flag for a current restart
ISOFF	Integer = 0
ISON	Integer = 1
ISUBR	Integer defining subroutine and statement of output call
ITASK	Index to the task table

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
IWORDS	Output message storage locations
IWRTCK	Flag to indicate when a checkpoint is being written
LB	Left justified blank field for CDC machines
LCALLR	Called routine name
LCALNM	Called routine number
LROUTN	Calling routine name
LRTNUM	Calling routine number
LSAVE	Storage area for saving statistic information
LSTAT	Status word used in tracing information
LSTION	Maximum number of entries in IWORDS
LTRACE	Trace word = ISON for tracing operation = ISOFF for normal operation
LUDEBUG	Logical unit for debug printout
LUPRNT	Logical unit for printout
LUTASK	Logical unit for reading task
MACHIN	Machine identification
MANTSA	Number of bits in the mantissa of a floating point word
MXSUBS	Size of the NRNAMS array
MXWALK	The size of the walk-back array
NAMRTN	Array of subroutine names for walk-back information
NBYTES	The number of bytes per computer word
NBYTSZ	The number of bits per byte
NNNAMS	Array containing subroutine number

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
NMSPTR	Number of subroutine pointer
NMTIMS	Array containing number of times each subroutine is entered
NOGOFB	Error flag
NOPCOD	A large negative number to indicate nothing in table entry
NOSTAT	Logical .TRUE. when no timing statistics are to be compiled
NRNAMS	Array containing the subroutine names
NRSUBS	The actual number of subroutine names loaded in the NRNAMS array
NRTIMS	Array containing the number of times subroutine is called
NSHFTS	Integer value 1000 used in the output call to pack the call number and the subroutine number in one word
NTALPH	Identifier of an alpha field or character
NTDPF1	Identifier of the first part of a double precision floating point number
NTDPF2	Identifier of the second part of a double precision floating point number
NTEND	Identifier of the end or last field of an input card
NTERR	Identifier of an error condition in a field on an input card
NTFLPT	Identifier of a floating point field
NTINT	Identifier of an integer field
NTKEYW	Identifier of a keyword field
NTSYMB	Identifier of a symbol field

ADEBUG

<u>SYMBOL</u>	<u>DEFINITION</u>
NTTASK	Identifier of a task field
NUMWRD	Number of words to be transferred in an output call
NWDSIZ	Number of bits per a computer word
NWLKOV	Not used
NXTTSK	Pointer to the next task in the task table
RSUMS	Accumulate the time in each subroutine
RTINS	The time a subroutine was called
TRACST	Logical .TRUE. when the debug trace is in effect
TSUMS	Unused
TTINS	Total time spent in each subroutine
WORDS	Equivalence to symbol IWORDS for floating point output
ZERO	This is the round off error

COMDECK AMPZIJ

COMMON/ AMPZIJ / S,B,XI,YI,ZI,SABI,CABI,SALPI,XJ,YJ,ZJ,CABJ,SABJ,
 A SALPJ,JCO1,JCO2,DIL,DIK,RHOX,RHOY,RHOZ,SALPR,REFV,
 B REFH,ZRATI,KSYP,IPERF,SIGMA,EPSR,FRQMHZ,WAVLGH,TWOPI,
 C ETA,TPCEPI,CLITE,FJ,PX,PY,ICO1,ICO2,
 D T1XI,T1YI,T1ZI,T2XI,T2YI,T2ZI,
 E T1XJ,T1YJ,T1ZJ,T2XJ,T2YJ,T2ZJ,AREA,
 F EXRT1,EXIT1,EYRT1,EYIT1,EZRT1,EZIT1,
 G EXRT2,EXIT2,EYRT2,EYIT2,EZRT2,EZIT2,
 Z WAVNUM,LSTAMP
 COMPLEX ZRATI,FJ,REFV,REFH

Common AMPZIJ contains data and variables used for generating interaction matrix and field data.

<u>SYMBOL</u>	<u>DEFINITION</u>
AREA	Surface area of a patch
B	Segment radius
CABI	U_x for i^{th} segment
CABJ	U_x for j^{th} segment
CLITE	Speed of light
DIK	δ_{ik}
DIL	δ_{il}
EPSR	Relative permittivity
ETA	Free space impedance
EXIT1, EXRT1 EYIT1, EYRT1 EZIT1, EZRT1	Real and imaginary field components due to current in t_1 direction on source patch
EXIT2, EXRT2 EYIT2, EYRT2 EZIT2, EZRT2	Real and imaginary field components due to current in t_2 direction on source patch
FJ	j
FRQMHZ	Frequency in megahertz
ICO1	Connection data for end 1 of observation segment

AMPZIJ

<u>SYMBOL</u>	<u>DEFINITION</u>
IC02	Connection data for end 2 of observation segment
IPERF	> 0 implies perfect ground
JC01	Connection data for end 1 of source segment
JC02	Connection data for end 2 of source segment
KSYMP	Image flag
LSTAMP	Last cell of common block AMPZIJ
PX,PY	Components of unit vector perpendicular to plane of incidence in the reflection geometry
REFH	$R_{\perp} - R_{ }$ (Fresnel reflection coefficients)
REFV	$R_{ }$
RHOX,RHOY,RHOZ	X, Y, Z, components of $\hat{\rho}'$
S	The segment length
SABI	U_Y of the i^{th} segment
SABJ	U_Y of the j^{th} segment
SALPI	U_Z of the i^{th} segment
SALPJ	U_Z of the j^{th} segment
SALPR	Z component of \hat{Z}'
SIGMA	Ground plane conductivity
TPCEPI	$\frac{1}{2\pi c \epsilon_0}$
TWOPI	2π
T1XI,T1YI,T1ZI	Components of \hat{t}_1 unit vector for observation patch
T1XJ,T1YJ,T1ZJ	Components of \hat{t}_1 unit vector for source patch
T2XI,T2YI,T2ZI	Components of \hat{t}_2 unit vector of observation patch

AMPZIJ

T2XJ,T2YJ,T2ZJ	Components of \hat{e}_2 unit vector for source patch
WAVLGH	Wavelength
WAVNUM	$2\pi/\text{WAVLGH}$
XI	X coordinate of observation segment
XJ	X coordinate of source segment
YI	Y coordinate of observation segment
YJ	Y coordinate of source segment
ZI	Z coordinate of observation segment
ZJ	Z coordinate of source segment
ZRATI	$\left(\frac{\epsilon_1}{\epsilon_0}\right)^{-1/2} \left(1 - \frac{j\sigma}{\omega\epsilon_1}\right)$

COMDECK ANUM
COMMON/ANUM/ANUML,ANUMK

<u>SYMBOL</u>	<u>DEFINITION</u>
ANUMK	Averaging factor used to compute A,B,C coefficients when there is a multiple junction at end 2 of a wire segment
ANUML	Averaging factor used to compute A,B,C coefficients when there is a multiple junction at end 1 of a wire segment

COMDECK ARGCOM

```
COMMON/ARGCOM/ MXARGS,NUMARG,FLTARG(100),IPASS,LSTARG  
DIMENSION INTARG(100)  
EQUIVALENCE (INTARG(1),FLTARG(1))
```

Common ARGCOM is used as the communication between the task execution processor and the module which executes the task. The argument list and the command language are loaded into the FLTARG array which is equivalent to the INTARG array. This permits floating point and integer values to be loaded in the same array.

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTARG	Value of floating point arguments
INTARG	Value of integer arguments
IPASS	Integer value 1 on first pass, integer value 2 on second pass through task list
LSTARG	Last cell of ARGCOM common
MXARGS	Size of the FLTARG array
NUMARG	Number of arguments of the current task being executed

COMDECK BNDDCL

COMMON /BNDDCL/ VDC(14,6), UDC(2), PDCR(14,6,2), TDCR(14,6,2)
 A ,DTDC(14,6), BTDC(14,6,4), DDC(14,6,2)

<u>SYMBOL</u>	<u>DEFINITION</u>
BTDC	<p>This array contains variables defining the vectors having been diffracted by the corner of edge ME of plate MP furthest from the cylinder which are tangent to the cylinder. The two tangent vectors are given by:</p> $T1 = \hat{X} * BTDC(MP, ME, 1) + \hat{Y} * BTDC(MP, ME, 2)$ $T2 = \hat{X} * BTDC(MP, ME, 3) + \hat{Y} * BTDC(MP, ME, 4)$
DDC	<p>This array contains the cosine of the starting reflected ray theta angle, where</p> $DDC(MP, ME, N) = \cos(TDCR(MP, ME, N))$
DTDC	<p>Dot product of unit vectors or rays diffracted by edge ME of plate MP and reflected by the preferred starting point of the cylinder</p>
PDCR	<p>This array contains angles PDCR(MP, ME, N) defining the phi component of the reflected ray direction of rays diffracted by edge ME of plate MP and then reflected at starting point N on the cylinder</p>
TDCR	<p>This array contains angles TDCR(MP, ME, N) defining the reflected ray theta component of ray directions for rays diffracted by edge ME of plate MP and then reflected at starting reflection point N on the cylinder</p>
UDC	<p>This array contains the linear value UDC(N) defining the z component of the starting reflection points on the cylinder axis. UDC(1) is for the more positive z location and UDC(2) is for the more negative z location</p>
VDC	<p>This array contains the elliptic angle VDC(MP, ME) defining the starting reflection point on the cylinder for a ray diffracted from edge ME of plate MP and then reflected by the cylinder</p>

COMDECK BDNFCL
COMMON /BNDFCL/ BD(14,6,2)

SYMBOL

DEFINITION

BD

This defines permissible theta diffraction angles for wedge diffraction. The permissible range for diffraction angle B0 for a source ray diffracted by edge ME of plate MP is given by:

$$\cos(B1) < \cos(B0) < \cos(B2)$$

where B0 is the angle the diffracted ray makes with the edge, and B1 and B2 are defined at the corners of the plate as

$$\cos(B1) = \cos(BD(MP, ME, 1))$$

$$\cos(B2) = \cos(BD(MP, ME, 2))$$

COMDECK BNDICL

COMMON /BNDICL/ DTI(14), VTI(14,2), BTI(14,4)

<u>SYMBOL</u>	<u>DEFINITION</u>
BTI	<p>This defines unit vectors of the two rays reflected by plate MP and tangent to the cylinder. The unit vector for the source ray reflected from plate MP tangent to tangent point 1 is given by:</p> $T1=\hat{X}*BTI(MP,1)+\hat{Y}*BTI(MP,2)$ <p>The unit vector for the source ray reflected plate MP tangent to tangent point 2 is given by:</p> $T2=\hat{X}*BTI(MP,3)+\hat{Y}*BTI(MP,4)$
DTI	<p>This is the dot product of the two rays reflected by plate MP which are tangent to the cylinder from the source image for reflection from plate MP:</p> $DTI(MP)=T1 \cdot T2$
VTI	<p>This is an array of elliptical angles defining the two tangent points on the cylinder for rays which are reflected from plate MP and tangent to the cylinder. Tangent point N for ray reflected from plate MP is given by:</p> $X=A*\cos(VTI(MP,N))$ $Y=B*\sin(VTI(MP,N))$

COMDECK BNRCL

COMMON /BNRCL/ VCD(14,6), UCD(14,6), BCD(14,6,2)

SYMBOL

DEFINITION

BCD

This array contains the value BCD(MP,ME,N) that defines the permissible range of the beta diffraction angles for the ray that is reflected by the cylinder and diffracted by edge ME of plate MP. The permissible range for diffraction angle B0 for this ray is given by:

$$\cos(B1) < \cos(B0) < \cos(B2)$$

where B0 is the angle the diffracted ray makes with the edge and angles B1 and B2 are defined at the corners of the plate as:

$$\begin{aligned}\cos(B1) &= \text{BCD}(\text{MP}, \text{ME}, 1) \\ \cos(B2) &= \text{BCD}(\text{MP}, \text{ME}, 2)\end{aligned}$$

UCD

This array contains the linear value UCD(MP,MC) that defines the z component of the reflection point for the ray that is reflected by the cylinder and hits corner MC of plate MP. The reflection point location is given by:

$$\begin{aligned}X &= A * \cos(\text{VCD}(\text{MP}, \text{MC})) \\ Y &= B * \cos(\text{VCD}(\text{MP}, \text{MC})) \\ Z &= \text{UCD}(\text{MP}, \text{MC})\end{aligned}$$

VCD

This array contains the elliptic angle VCD(MP,MC) that defines the x,y components of the reflection point location for the ray which is reflected by the cylinder and hits corner MC of plate MP.

COMDECK BNDSCCL

COMMON /BNDSCCL/ DTS, VTS(2), BTS(4)

SYMBOL

DEFINITION

BTS

This defines unit vectors of the two source rays tangent to the cylinder. The unit vector for the source ray tangent to tangent point 1 is given by:

$$T1 = \hat{X} * BTS(1) + \hat{Y} * BTS(2)$$

The unit vector for the source ray tangent to tangent point 2 is given by:

$$T2 = \hat{X} * BTS(3) + \hat{Y} * BTS(4)$$

DTS

This is the dot product of the two source vectors tangent to the cylinder:

$$DTS = T1 \cdot T2$$

VTS

VTS consists of two elliptical angles defining the two tangent points on the cylinder. Tangent point N is given by:

$$X = A * \cos(VTS(N))$$
$$Y = B * \sin(VTS(N))$$

COMDECK BRNPHW

COMMON /BRNPHW/ PHWR(14,6)

SYMBOL

DEFINITION

PHWR

Is the phi angle location of the center of edge
ME of plate MP with respect to the cylinder

COMDECK BSCERR
COMMON /BSCERR/ IBSCER

SYMBOL

DEFINITION

IBSCER

A flag used to indicate if an error occurred in the GTD calculations (0 indicates no error, 1 indicates error occurred)

COMDECK CLDRC
COMMON /CLDRC/ LDRC(14,6)
LOGICAL LDRC

SYMBOL

DEFINITION

LDRC

Is an array of logical variables. LDRC(MP,ME) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on cylinder for a ray which is diffracted from edge ME of plate MP and then reflected by the cylinder

COMDECK CLRDC
COMMON /CLRDC/ LRDC(14,6)
LOGICAL LRDC

SYMBOL

DEFINITION

LRDC

Is an array of logical variables. LRDC(MP,ME) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on cylinder for a ray which is reflected by the cylinder and then diffracted by edge ME of plate MP

COMDECK CLRFC
COMMON /CLRFC/ LRFC
LOGICAL LRFC

SYMBOL

DEFINITION

LRFC

Is a logical variable which is set true if the starting point data are available from previous pattern angle (for next pattern angle) when defining the reflection point on the cylinder

COMDECK CLRFI
COMMON /CLRFI/ LRFI(14)
LOGICAL LRFI

SYMBOL

DEFINITION

LRFI

Is an array of logical variables. LRFI(MP) is set true if starting point data are available from previous pattern angle (for next pattern angle) when defining reflection point on the cylinder for a ray reflected by plate MR and then reflected by the cylinder

COMDECK CLRFS
COMMON /CLRFS/ LRFS(14)
LOGICAL LRFS

SYMBOL

DEFINITION

LRFS

Is an array of logical variables. LRFS(MP) is set true if starting point data are available for the next pattern angle when defining the reflection point on a cylinder for a ray reflected by the cylinder and then reflected by plate MP.

COMDECK COMP
COMMON /COMP/ CJ, CPI4
COMPLEX CJ,CPI4

<u>SYMBOL</u>	<u>DEFINITION</u>
CJ	The imaginary constant, $J (=SQRT(-1))$
CPI4	The complex constant, $CEXP(-J*PI/4)$

COMDECK CYLIN

COMMON /CYLIN/ AA, BB, ZCN, THTN, ZCP, THTP

<u>SYMBOL</u>	<u>DEFINITION</u>
AA	The elliptical cylinder major axis radius in meters
BB	The elliptical cylinder minor axis radius in meters
THTN	The theta angle from the z axis to the end cap normal of the more negative end cap (measured in the x-z plane) in radians
THTP	The theta angle from the z axis to the end cap normal of the more positive end cap (measured in the x-z plane) in radians
ZCN	The distance between the center of the cylinder and the point at which the z axis pierces the more negative end cap in meters
ZCP	The distance between the center of the cylinder and the point at which the z axis pierces the more positive end cap in meters

```

COMDECK CSYSTEM
COMMON/CSYSTEM/MAXCSY, IDCSYS(10), CX(10), CY(10), CZ(10), ROX(10),
1      ROY(10), ROZ(10)
Z ,LSTCSY
DIMENSION CVAL(10,6)
EQUIVALENCE (CVAL(1,1),CX(1))

```

Common CSYSTEM is used in the geometry input processor to store coordinate system information.

<u>SYMBOL</u>	<u>DEFINITION</u>
CVAL	Equivalence to the coordinate system parameter arrays in the common CSYSTEM
CX	Contains the x coordinate of the origin of a coordinate system
CY	Contains the y coordinate of the origin of a coordinate system
CZ	Contains the z coordinate of the origin of a coordinate system
IDCSYS	Contains the coordinate system identification number
LSTCSY	Last value of common CSYSTEM
MAXCSY	Maximum number of coordinate system entries allowed
ROX,ROY,ROZ	X, Y, Z components of \hat{k}

COMDECK DEFDAT

COMMON/DEFDAT/ MAXDEF,NPRDEF,NAMDEF,IDEFIN(100,5),IDFINS,NDEBUF
Z ,LSTDEF

Common DEFDAT is used in the geometry processor to store the defined element table.

<u>SYMBOL</u>	<u>DEFINITION</u>
IDEFIN (See NOTE)	Array containing the defined element parameters
IDFINS	Number of defined entries in core
LSTDEF	Last cell of common DEFDAT
MAXDEF	Maximum number of defined elements that can be stored in core
NAMDEF	Not used
NDEBUF	Not used
NPRDEF	Number of parameters needed for each defined element

NOTE:

<u>COLUMN</u>	<u>PARAMETER</u>
1	Name
2	1st segment number
3	Last segment number
4	1st point number
5	Last point number

COMDECK DIR
COMMON /DIR/ D(3), THSR, PHSR, SPS, CPS, STHS, CTHS

<u>SYMBOL</u>	<u>DEFINITION</u>
CPS	The cosine of PHSR
CTHS	The cosine of THSR
D	The unit vector of the propagation direction in (xyz) reference coordinate system components: $\hat{D} = \hat{X} * D(1) + \hat{Y} * D(2) + \hat{Z} * D(3)$
PHSR	Phi angle defining propagation direction in spherical reference coordinate system (measured from x axis) in radians
SPS	The sine of PHSR
STHS	The sine of THSR
THSR	Theta angle defining propagation direction in spherical reference coordinate system (measured from z axis) in radians

COMDECK DIST
COMMON / DIST / SNFF

SYMBOL

DEFINITION

SNFF

Distance from the cylinder reflection point image imaged through plate MP to the near-field observation point for a cylinder-reflected, then plate-reflected field

COMDECK DOUBLE
COMMON /DOUBLE/ IDD(361), IDG(14,6), IANG

<u>SYMBOL</u>	<u>DEFINITION</u>
IANG	This integer variable identifies the observation angle under consideration
IDD	This integer identifies which edge the first diffraction occurs from and which plate shadows it for a given pattern angle
IDG	This integer array is used to store the plate that shadows the ray diffracted from edge ME (ID(MP,ME))

COMDECK EDMAG
COMMON /EDMAG/ VMAG(14,6)

SYMBOL

DEFINITION

VMAG

This defines the length of edges on plates in wavelengths. The length of edge ME of plate MP is given by VMAG(MP,ME)

COMDECK EHFLD
COMMON /EHFLD/ IEH

SYMBOL

DEFINITION

IEH

Integer flag to indicate the type of field
wanted (1 for E-field, 0 for H-field)

COMDECK ESTOR
COMMON /ESTOR/ ETHT(361), EPHT(361)
COMPLEX ETHT,EPHT

<u>SYMBOL</u>	<u>DEFINITION</u>
EPHT	This complex array is used to store the total E-phi field
ETHT	This complex array is used to store the total E-theta field

COMDECK FARP
COMMON /FARP/ IM, H, HAW

<u>SYMBOL</u>	<u>DEFINITION</u>
H	The length of the source (in the direction of the source current) in wavelengths
HAW	The aperture width in wavelengths (width of the source) (if HAW is less than 0.1 wavelengths, the code assumes the source to be a line source)
IM	This defines the type of source used: IM=0 specifies electric source IM=1 specifies magnetic source

COMDECK FEDDAT
COMMON /FEDDAT/ EFED(361), HFED(361)
COMPLEX EFED, HFED

<u>SYMBOL</u>	<u>DEFINITION</u>
EFED	This complex array defines the E-plane pattern of the source
HFED	This complex array defines the H-plane pattern of the source


```

COMDECK FINI
  IF(NOSTAT) RETURN
  CALL WLBCK (NAMESUB)
  CALL STATOT (NAMESUB, NUMSUB, LS /E(1))
  LROUTN = LSAVE(1)
  LCALLR = LSAVE(2)
  LSTAT = LSAVE(3)
  LRTNUM = LSAVE(4)
  LCALNM = LSAVE(5)
  RETURN

```

Common deck FINI is used to initiate a subroutine exit and restore all subroutine calling information.

<u>SYMBOL</u>	<u>DEFINITION</u>
LCALLR	Last calling routine name
LCALNM	Last calling routine number
LROUTN	Last routine name
LRTNUM	Last routine number
LSAVE	Internal array to restore statistical information
LSTAT	Last location in subroutine where set to before exit
NAMESUB	Current subroutine name
NUMSUB	Current subroutine number

COMDECK FLDCOM

COMMON/ FLDCOM / LOCAIR, LOCAII, LOCBIR, LOCBII, LOCCIR, LOCCII
1 ,NSEG

Common FLDCOM contains the pointers to the A, B, and C matrices in the
TEMP array.

<u>SYMBOL</u>	<u>DEFINITION</u>
LOCAII	Location of imaginary parts of A
LOCAIR	Location of real parts of A
LOCBII	Location of imaginary parts of B
LOCBIR	Location of real parts of B
LOCCII	Location of imaginary parts of C
LOCCIR	Location of real parts of C
NSEG	Number of segments

```

COMDECK FLDVAL
COMMON/FLDVAL/X,Y,Z,ISRCE,E(3),U1(2),V1(2),W1(2),NU(3),ICTYPE,L1,L2,
L3,NAMSRC,FARFLD
COMPLEX E
LOGICAL FARFLD

```

Common /FLDVAL/ transfers observation point data from FLDDRV to GETFLD and field excitations from GETFLD to FLDDRV.

<u>SYMBOL</u>	<u>DEFINITION</u>
E	X,Y, and Z components of excitation
FARFLD	Far-field flag
ICTYPE	Coordinate system type
ISRCE	Source type
L1,L2,L3	Loop indices
NAMSRC	Symbolic name of source data set
NU	Order of coordinates
U1	Start and increment of first observation loop
V1	Start and increment of second observation loop
W1	Start and increment of third observation loop
X,Y,Z	Coordinates of observation point

COMDECK FLDXYZ

COMMON /FLDXYZ/ FX, FY, FZ
COMPLEX FX, FY, FZ

<u>SYMBOL</u>	<u>DEFINITION</u>
FX	The x component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system
FY	The y component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system
FZ	The z component accumulator for the total electric field desired in volts/wavelength in the reference coordinate system

COMDECK FNANG
COMMON /FNANG/ FNP(14,6)

SYMBOL

DEFINITION

FNP

Wedge angle of edge ME of plate MP
 $FNP(MP,ME) = (2*PI - WA) / PI$, where WA is the inside
angle of the wedge. It is renamed FN in the
main program before calling diffraction sub-
routines NOTE: If two plates intersect,
diffraction calculation is only calculated once,
even though two different edges are involved.

```

COMDECK FUDG
COMMON /FUDG/ TRAN, ESTH, ESPH, EHTH, EHPH, XR(3), RG, RH01
A ,SMAG, LTRF
COMPLEX TRAN, ESTH, ESPH, EHTH, EHPH
LOGICAL LTRF

```

<u>SYMBOL</u>	<u>DEFINITION</u>
EHTH,EHPH	Theta and phi components of hard component of field incident on cylinder reflection point
ESTH,ESPH	Theta and phi components of soft component of field incident on cylinder reflection point
LTRF	Set true if geometrical optics reflected field is not present
RG	Radius of curvature of cylinder at reflection point
RH01	Ray spreading radius in plane of cylinder curvature at reflection point in RCS
SMAG	Distance from source to reflection point
TRAN	The spread factor and phase of the geometrical optics field
XR	X,Y,Z components of the reflection point location in RCS

COMDECK FUDGI

COMMON /FUDGI/ TRANI, ESTHI, ESPHI, EHTHI, EHPHI, XRI(3)

A ,RGII, RH01I, SMAGI, LTRFI

COMPLEX TRANI, ESTHI, ESPHI, EHTHI, EHPHI

LOGICAL LTRFI

<u>SYMBOL</u>	<u>DEFINITION</u>
EHPHI	Phi component of hard component of field incident on cylinder reflection point after plate reflection
EHTHI	Theta component of hard component of field incident on cylinder reflection point after plate reflection
ESPHI	Phi component of soft component of the field incident on the cylinder reflection point after plate reflection
ESTHI	The theta component of the soft component of the field incident on cylinder reflection point after plate reflection
LTRFI	Set true if geometrical optics reflected field is not present.
RGII	Radius of curvature of cylinder at reflection point
RH01I	Ray spreading radius in plane of cylinder curvature at reflection point in RCS
SMAGI	Distance from the source image to the cylinder reflection point
TRANI	The spread factor and phase of the geometrical optics field
XRI	X,Y,Z components of the reflection point location in RCS

COMDECK FUDGJ

COMMON /FUDGJ/ TRANJ, ESTHJ, ESPHJ, EHTHJ, EHPHJ, XRJ(3)
A ,RGJ, RH01J, SMAGJ, LTRFJ
COMPLEX TRANJ, ESTHJ, ESPHJ, EHTHJ, EHPHJ
LOGICAL LTRFJ

SYMBOL

DEFINITION

EHTHJ,EHPHJ

Theta and phi components of hard component of field incident on cylinder reflection point

ESTHJ,ESPHJ

Theta and phi components of soft component of field incident on cylinder reflection point

LTRFJ

Set true if geometrical optics reflected field is not present

RGJ

Radius of curvature of cylinder at reflection point

RH01J

Ray spreading radius in plane of cylinder curvature at reflection point in RCS

SMAGJ

Distance from source to reflection point

TRANJ

The spread factor and phase of the geometrical optics field

XRJ

X,Y,Z components of the reflection point location in RCS

COMDECK GEODAT

```
COMMON/ GEODAT / ITYPPT,ITYPTG,ITYPDE,ITYPPL,IRFLC(3),IAXIS(3),  
  SCALES(3),  
  1 ISCALE(3), DGTORD, IP217, ISEQ(100), SORT  
  Z ,LSTGEO  
  LOGICAL SORT
```

Common GEODAT contains various information used in the geometry processor.

<u>SYMBOL</u>	<u>DEFINITION</u>
DGTORD	Parameter to convert from degrees to radians.
IAXIS	Parameter identifying coordinate axis.
IP217	Integer power 2^{17}
IRFLC	Identifier of reflection coordinate axis.
ISCALE	Identifier of the scale parameter on the input command
ISEQ	Array containing the sequence in a renumber command.
ITYPDE	Mnemonic identifying defined elements.
ITYPPL	Mnemonic identifying a plate element
ITYPPT	Mnemonic identifying point element
ITYPTG	Mnemonic identifying tag element
LSTGEO	Last cell of common GEODAT
SCALES	Numerical values of the permissible scales
SORT	Flag set .TRUE. if a bubble sort is to be performed, set due to renumbering or the presence of both wires and patches

COMDECK GEOMEL

COMMON /GEOMEL/ A, B, ZC(2), SNC(2), CNC(2), CTC(2)

<u>SYMBOL</u>	<u>DEFINITION</u>
A	Radius of elliptical cylinder along x axis of the cylinder in wavelengths
B	Radius of elliptical cylinder along y axis of the cylinder in wavelengths
CNC	This is the cosine of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
CTC	This is the cotangent of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
SNC	This is the sine of the angle between the z axis and the plane of end cap MC (angle measured in x-z plane)
ZC	Point where end cap MC intersects z axis of reference coordinate system. The variable ZC(1) refers to the more positive end cap and ZC(2) refers to the more negative end cap

COMDECK GEOPLA

COMMON /GEOPLA/ X(14,6,3), V(14,6,3), VP(14,6,3), VN(14,3)
A ,MEP(14), MPX

<u>SYMBOL</u>	<u>DEFINITION</u>
MEP	This integer array defines the number of edges (or corners) on plate MP
MPX	This integer defines the number of plates in the geometry (not including ground plate)
V	<p>This defines the edge unit vector for each edge on each plate.</p> <p>The edge vector V of edge ME on plate MP is as follows:</p> $V = x \cdot V(MP, ME, 1) + y \cdot V(MP, ME, 2) + z \cdot V(MP, ME, 3)$ <p>(NOTE that edge ME is between corners MC and MC+1 where MC=ME)</p>
VN	<p>This defines the unit normal for each plate in (XYZ) reference coordinate system components.</p> <p>The plate unit normal for plate MP is given as follows:</p> $VN = x \cdot VN(MP, 1) + y \cdot VN(MP, 2) + z \cdot VN(MP, 3)$
VP	<p>This defines the unit binormal for each edge on each plate in (XYZ) reference system components.</p> <p>The edge binormal for edge ME of plate MP is as follows:</p> $VP = x \cdot VP(MP, ME, 1) + y \cdot VP(MP, ME, 2) + z \cdot VP(MP, ME, 3)$
X	<p>This array defines corner locations for all of the plates in the (XYZ) reference coordinate system components in wavelengths.</p> <p>The location of corner MC on plate MP is as follows:</p> $x = \hat{x}X(MP, MC, 1) + \hat{y}X(MP, MC, 2) + \hat{z}X(MP, MC, 3)$

COMDECK GROUND
COMMON /GROUND/ LGRND, MPXR
LOGICAL LGRND

<u>SYMBOL</u>	<u>DEFINITION</u>
LGRND	A logical variable used to indicate the presence of an infinite ground plane LGRND=T Indicates ground plane present LGRND=F Indicates ground plane not used
MPXR	The maximum number of plates present (including the ground plane if one is used)

COMDECK GTD

COMMON /GTD/ AS, ID, SAS, SASP, CAS

SYMBOL

DEFINITION

AS	PI minus THSR (THSR is the theta component of the observation direction in reference coordinate system relative to the cylinder axis in radians)
CAS	The cosine of AS
ID	Flag for function FCT
SAS	The sine of AS
SASP	The absolute value of the sine of (AS-PI/2)

COMDECK GTDDAT

```
COMMON/ GTDDAT / NTPGTD,IPLTAG,ICYTAG,IECTAG,MXPLAR,MXCYAR,  
$MXECAR,NUMPLT,NUMCYL,NUMECP,NUMGTD,MAXPLT,MAXCYL,MAXECP  
DIMENSION ITAGID(3)  
EQUIVALENCE (IPLTAG,ITAGID(1))
```

This common contains all information regarding the GTD geometries, except that which is contained in SEGTBL (/SEGMNT/)

<u>SYMBOL</u>	<u>DEFINITION</u>
ICYTAG	Cylinder tag identifier
IECTAG	End cap tag identifier
IPLTAG	Plate tag identifier
ITAGID	Equivalenced to IPLTAG, ICYTAG, and IECTAG
MAXCYL	Maximum number of cylinders allowed
MAXECP	Maximum number of end caps allowed
MAXPLT	Maximum number of plates allowed
MXCYAR	Maximum number of arguments on CY (cylinder) geometry command
MXECAR	Maximum number of arguments on EC (end cap) geometry command
MXPLAR	Maximum number of arguments on PL (plate) geometry command
NTPGTD	Number of different types of GTD geometries
NUMCYL	Number of cylinders in present geometry data set
NUMECP	Number of end caps in present geometry data set
NUMGTD	Total number of GTD entries in geometry data set
NUMPLT	Number of plates in present geometry data set

COMDECK HITPLT
COMMON /HITPLT/ MPH

SYMBOL

DEFINITION

MPH

Used for identifying double diffraction for plates; the number of the plate which the ray hits first.

COMDECK IMAINF
COMMON /IMAINF/ XI(14,14,3), VXI(3,3,14)

SYMBOL

DEFINITION

VXI

This specifies single reflection source image coordinate system axes unit vectors in (XYZ) reference coordinate system components.

The image source coordinate system axes unit vectors for single reflection of source in plate MP are given by:

$$XP = x \cdot VXI(1,1,MP) + y \cdot VXI(1,2,MP) + z \cdot VXI(1,3,MP)$$

$$YP = x \cdot VXI(2,1,MP) + y \cdot VXI(2,2,MP) + z \cdot VXI(2,3,MP)$$

$$ZP = x \cdot VXI(3,1,MP) + y \cdot VXI(3,2,MP) + z \cdot VXI(3,3,MP)$$

XI

This gives the source image locations in wavelengths for all single and double reflections from plates.

The source image location for a ray which is singly reflected from plate MP is given by:

$$X = XI(MP, MP, 1)$$

$$Y = XI(MP, MP, 2)$$

$$Z = XI(MP, MP, 3)$$

The source image location for a doubly reflected ray which reflects off of plate MP and then plate MPP is given by:

$$X = XI(MP, MPP, 1)$$

$$Y = XI(MP, MPP, 2)$$

$$Z = XI(MP, MPP, 3)$$

COMDECK IMCINF
COMMON /IMCINF/ XIC(2,3), VXIC(3,3,2)

SYMBOL

DEFINITION

VXIC

This defines the source image coordinate system axes for reflection from end caps. The source image coordinate system axes unit vectors for a ray reflected from end cap MC are given in the RCS as follows:

$$XP=x*VXIC(1,1,MC)+y*VXIC(1,2,MC)+z*VXIC(1,3,MC)$$

$$YP=x*VXIC(2,1,MC)+y*VXIC(2,2,MC)+z*VXIC(2,3,MC)$$

$$ZP=x*VXIC(3,1,MC)+y*VXIC(3,2,MC)+z*VXIC(3,3,MC)$$

XIC

This gives the source image locations for single reflections from cylinder end caps. The source location for reflection from end cap MC is given in the reference coordinate system as:

$$X=XIC(MC,1)$$

$$Y=XIC(MC,2)$$

$$Z=XIC(MC,3)$$

```

COMDECK INIT
  IF(NOSTAT) GO TO 9876
  IF(NUMSUB .EQ. 0 ) CALL ASSIGN(NAMSUB,NUMSUB)
  LSAVE(1) = LROUTN
  LSAVE(2) = LCALLR
  LSAVE(3) = LSTAT
  LSAVE(4) = LRTNUM
  LSAVE(5) = LCALNM
  LCALLR = LROUTN
  LCALNM = LRTNUM
  LROUTN = NAMSUB
  LRTNUM = NUMSUB
  LSTAT = 0
  CALL STATIN(NAMSUB,NUMSUB,LSAVE(1))
  CALL WLKBCK (NAMSUB)
9876 CONTINUE

```

Common deck INIT is used to initialize a subroutine entry and save subroutine calling information.

<u>SYMBOL</u>	<u>DEFINITION</u>
LCALLR	Last calling routine name
LCALNM	Last calling routine number
LROUTN	Last routine name
LRTNUM	Last routine number
LSAVE	Internal array to save statistical information
LSTAT	Last position in a subroutine
NAMSUB	Current subroutine name
NUMSUB	Current subroutine

COMDECK INPERR

```
COMMON /INPERR/ NPEARG, NPEDPC, NPEDRM, NPEDPL, NPELAB, NPELIT,  
1NPELNL, NPELOO, NPELOP, NPENOI, NPENOM, NPENRG, NPENTK, NPENUM,  
2 NPESEX, NPESYM, NPETSK, NPEKWD, NPERGE, NPELST, NPEIFO, NPESCN,  
3 NERCL1, NERCOD, NERCON, NERDPN, NEREOF, NEREXD, NEREXF,  
4 NEREXP, NERINT, NERNAM, NILEGL, NOEND, NOTASK, NPELNF,  
5 NPEDUM(27)
```

Common INPERR is used in the input language processor and contains the input error flags.

<u>SYMBOL</u>	<u>DEFINITION</u>
NERCL1	Flag indicating no letter in column 1 of input card
NERCOD	Flag indicating scan code table is full
NERCON	Flag indicating improper continuation card
NERDPN	Flag indicating error detected by GETDPN (number field too large)
NEREOF	Flag indicating end of file before end of task (continuation expected)
NEREXD	Flag indicating exponent too large for double precision number
NEREXF	Flag indicating exponent too large for floating point number
NEREXP	Flag indicating no exponent found after E or D in number field
NERINT	Flag indicating scan error detected by GETINT (integer too large)
NERNAM	Flag indicating variable name is too long
NILEGL	Flag indicating illegal character detected by GETCHR
NOEND	Flag indicating no end of card character encountered
NOTASK	Flag indicating no legal task name was found
NPEARG	Flag indicating argument table full

INPERR

<u>SYMBOL</u>	<u>DEFINITION</u>
NPEDPC	Flag indicating second half of a double precision number not found in the scan code table
NPEDPL	Flag indicating second half of a double precision number not found in the literal table
NPEDRM	Direct manipulation error
NPEDUM	Unused locations
NPEIFO	Left-over information in scan tables
NPEKWD	Flag indicating keyword expected but not found
NPELAB	Flag indicating unable to parse loop terminator label specification
NPELIT	Flag indicating literal number table is full
NPELNF	Flag indicating loop terminator label not found
NPELNL	Flag indicating label number is not referenced by a loop instruction
NPELOO	Flag indicating loop table is full
NPELOP	Unable to recognize number of times to execute a loop
NPELST	Flag indicating illegal list item encountered
NPENOI	Flag indicating not enough information to fulfill command
NPENOM	Flag indicating no match found in symbol table when match was required
NPENRG	No argument passed to FNDARG
NPENTK	Task name not found
NPENUM	Flag indicating literal, either numeric or alpha, expected but not found
NPERGE	Array index out of range

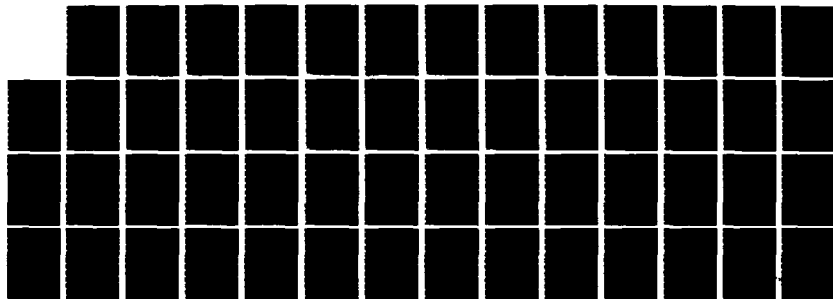
AD-A137 510

GENERAL ELECTROMAGNETIC MODEL FOR THE ANALYSIS OF
COMPLEX SYSTEMS (GEMACS). (U) BDM CORP ALBUQUERQUE NM
D L KADLEC ET AL. SEP 83 BDM/A-83-020-TR-VOL-3-PT-4

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RADC-TR-83-217-VOL-3-PT-4 F30602-81-C-0084 F/G 20/14 NL



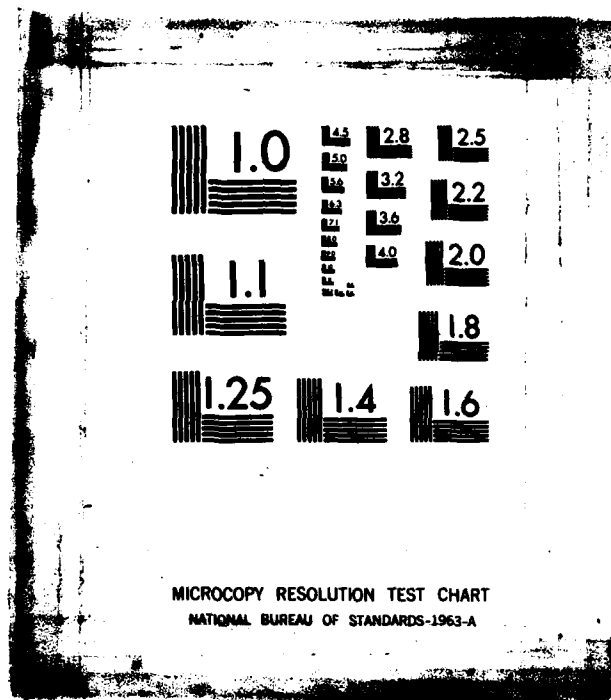
END

1

FILED

3

DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

INPERR

<u>SYMBOL</u>	<u>DEFINITION</u>
NPESCN	Flag indicating scan error detected by parse
NPESEX	Flag indicating name already exists in symbol table
NPESYM	Flag indicating name symbol table is full
NPETSK	Flag indicating task table is full

COMDECK INTMAT

COMMON/INTMAT/KJINT(18),KJGTD,KJMOM,KJFLD,ISETTB(22,5)
LOGICAL KJGTD,KJMOM,KJFLD

This common contains data on allowable physics interactions and interactions that have been set by the SETINT command.

<u>SYMBOL</u>	<u>DEFINITION</u>
ISETTB	Array of allowable physics interactions: keyword numbers and interaction numbers.
KJFLD	Flag set if any incident field interactions have been set
KJGTD	Flag set if any GTD interactions have been set
KJINT	Array of interactions set by SETINT command
KJMOM	Flag set if any MOM interactions have been set

COMDECK IOFLES
COMMON / IOFLES /NFILES, IOFILE(99),NDFILE(99),LSTIOF

Common IOFLES controls the status and the position of the peripheral files.

<u>SYMBOL</u>	<u>DEFINITION</u>
IOFILE	Array containing the current position pointer for peripheral files.
LSTIOF	Last cell of common IOFLES.
NDFILE	Array containing the total number of words currently on a file.
NFILES	Integer value of the highest number logical unit which may be referenced. It is assumed that logical units 8 through NFILES are available as needed for symbol storage.

COMDECK JUNCOM

**COMMON/JUNCOM/NCOX,JOX(50),NCIX,JIX(50),NCOZ,JOZ(50),NCIZ,JIZ(50)
Z,MAXCON**

Common JUNCOM is used by the interaction matrix generator and contains the junction information for wire gridded models.

<u>SYMBOL</u>	<u>DEFINITION</u>
JIX	Array containing numbers of the segments which have end 1 connected to end 1 of the source segment.
JIZ	Array containing the integer values of the segments which have end 2 connected to end 1 of the source segment.
JOX	Array containing the numbers of the segments which have end 1 connected to end 2 of the source segment.
JOZ	Array containing the identification of the segments which have end 2 connected to end 2 of the source segment.
MAXCON	Integer value of the maximum value of connections allowed on either end of the source segment.
NCIX	Integer value of the number of segments which have end 1 connected to end 1 of the source segment.
NCIZ	Integer value of the number of segments which have end 2 connected to end 1 of the source segment.
NCOX	Integer value of the number of segments which have end 1 connected to end 2 of the source segment.
NCOZ	Integer value of the number of segments which have end 2 connected to end 2 of the source segment.

COMDECK LAST
COMMON /LAST/ FRQGLA, IGDNLA

SYMBOL

DEFINITION

FRQGLA

The previous frequency used in GTD calculations

IGDNLA

The previous geometry data set name used in GTD calculations

COMDECK LDCBY
COMMON /LDCBY/ LDC(14,6)
LOGICAL LDC

SYMBOL

DEFINITION

LDC

Logical variable LDC (MP,ME) is set true if edge ME of plate MP is part of a diffracting wedge used to compute diffracted fields for plate-diffracted, cylinder-reflected ray

COMDECK LOGDIF
COMMON /LOGDIF/ LSLOPE, LCORNR
LOGICAL LSLOPE, LCORNR

<u>SYMBOL</u>	<u>DEFINITION</u>
LCORNR	A logical variable used to indicate if corner diffraction is desired. LCORNR=T indicates corner diffraction desired LCORNR=F indicates corner diffraction not desired
LSLOPE	A logical variable used to indicate if slope diffraction is desired. LSLOPE=T indicates slope diffraction desired LSLOPE=F indicates slope diffraction not desired

CONDECK LPLCY
COMMON /LPLCY/ LPLA, LCYL
LOGICAL LPLA, LCYL

<u>SYMBOL</u>	<u>DEFINITION</u>
LCYL	A logical variable used to indicate the presence of an elliptic cylinder. LCYL=T indicates cylinder present LCYL=F indicates cylinder not present
LPLA	A logical variable used to indicate the presence of at least one plate or infinite ground plate. LPLA=T indicates plates are present LPLA=F indicates plates not present

COMDECK LSHDP
COMMON /LSHDP/ LSTS, LSTD(14)
LOGICAL LSTS, LSTD

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTD	A logical array such that LSTD(ML) is set true if plate ML totally shadows plate MP from the source
LSTS	A logical variable set true if total shadowing algorithm is being used

COMDECK LSHDT

COMMON /LSHDT/ LSHD(14), LIHD(14,14)
LOGICAL LSHD, LIHD

SYMBOL

DEFINITION

LIHD

A logical variable used to indicate if plates MP and MPP cannot illuminate each other.

LIHD(MP,MPP)=T indicates plates cannot illuminate each other

LIHD(MP,MPP)=F indicates plates can illuminate each other

LSHD

A logical variable used to indicate if plate MP is totally shadowed from the source by any one plate or the cylinder. LSHD(MP)=T indicates plate MP is totally shadowed from direct source rays.

LSHD(MP)=F indicates plate MP is not totally shadowed

COMDECK MODULE

COMMON/MODULE/ MODNAM, MODLST(10),LSTMOD,MODMAX

This common block contains the name of the module executing and the names of modules which have previously executed.

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTMOD	Pointer to last entry in MODLST
MODLST	List of modules which have already executed
MODMAX	Maximum length of MODLST
MODNAM	Name of module now executing

COMDECK NEAR
COMMON /NEAR/ LNRFLD, FLDPT(3)

<u>SYMBOL</u>	<u>DEFINITION</u>
FLDPT	The near-field observation point in wavelengths in the reference coordinate system
LNRFLD	A flag to indicate if far-field calculations (LNRFLD=0) were requested or if near-field calculations (LNRFLD=1) were requested

COMDECK OUTPTD

COMMON /OUTPTD/ LPRAD, LRANG, PRAD, RANG, WL
LOGICAL LPRAD, LRANG

<u>SYMBOL</u>	<u>DEFINITION</u>
LPRAD	This logical variable is set true if total power radiated by the sources is specified by the user
LRANG	This logical variable is set true if computed far-zone field values are to include range factor $(\text{CEXP}(-J \cdot R)/R)$
PRAD	Total power radiated (or input power) in watts (specified by the user)
RANG	The distance from the origin to the far-field point in meters
WL	The wavelength in meters

COMDECK PARTAB

```

COMMON/PARTAB/NTSKTB(100),NARGTB(1000),NDATBL(60,8),
A NLOOPS(100,4), LITNUM(50,2), KWNAME(150), KWARG(150),
B NAMTSK(100), NCODES(250), KWBAND, KWC, KWCDP, KWCLPS,
C KWCNJG, KWCNVG, KWCPNC, KWCPNM, KWC1, KWC2, KWD, KWFLID,
D KWICOD, KWINV, KWLABL, KWLBD, KWLNLN, KWLNLG, KWLNP0, KWLGLN,
E KWLGLG, KWLGP0, KWLUD, KWMAG, KWMXIT, KWMRG, KWN, KWOFF,
F KWON, KWPART, KWPIVT, KWPLT, KWR, KWRDP, KWRDUC, KWRFLC,
G KWREPL, KWR1 KWR2, KWSC, KWSCDP, KWSEQ, KWSIZE, KWSR,
H KWSRDP, KWTRAN, KWTYPE, KWUBW, KWVALU, KWXPND, KWGEOM,
I KWZGEN, KWEXPN, KWPLSE, KWSNCS, KWPSN, KWGDAT, KWFRQ,
I KWZMAT, KWLOAD, KWCOND, KWEPSR, KWTRAC, KWIS,
J NTASKS, NUMWIP, NTSKMX, NARGMX, NDATMX, LOOPMX, LITNMX,
K KOLNAM, KOLLOC, KOLFST, KOLAST, KOLBIT, KOLROW, KOLCOL,
L KOLLNK, KOLLBL, KOLTSK, KOLTIM, KOLCNT, KOLCOD, KOLVAL,
M KBSNGL, KBTEXT, KBREAL, KBCPLX, KBDPRE, KBFULL, KBSYM,
N KBBAND, KBLEFT, KBORDR, KBLWRT, KBUPRT, KBPVIT, KBGEOM, KBSRCE,
O KBZIMP, KBSOLN, KBSYMY, KBLOAD, KBNFLD, KBFFLD, KBBITS(15),
P NPTASK, NPARGL, NPDATA, NPLOOP, NPLITN

```

C

```

COMMON /PARTAB/ KWL, KWX, KWZ, KWZIMP, KWNP, KWP1,KWP2, KWT1,
1 KWT2, KWVS, KWX1, KWX2, KWT1, KWT2, KWZ1, KWZ2, KWECC, KWPHI,
2 KWTAG, KWEDRV, KWFFLD, KWNFLD, KWSEGS, KWTHET, KWCW, KWSW,
3 KWBNDW, KWMAX, KWBCSB, KWTIME, KWCHKP, KWDBG,
4 KWEND, KWVSRC, KWESRC, KWGMDT, KWREAD, KWLOOP, KWABS, KWRITE,
5 KWPLOT, KWPRNT, KWPRGE, KWRSTR, KWSET, KWSOLV, KWSMDF, KWWIPE,
6 KWZCOD, KWAXIS, KWPW, KWTAGS, KWV, MKMX, KWDM(4), NTDM, KWLMT,
7 MXARGT, MXMAT, NARGTP(10), NARGN, NARGLM, KWFMTP(150),
8 NTSFMT(300), MXSYMB, KWTDM, KWILP,
A KWDP, KWDR, KWDT, KWDW, KWDX, KWY, KWZ, KWIP, KWPRLC, KWSRLC, KWZCDS,
B KWZLDS, KWNMFL, KWNR, KWSTAT, KWBCRE, KWIRE, KWPRE,
C KWSTNT, KWPR, KWPD, KWRD, KWRR, KWPL, KWER, KWED, KWCY, KWRC,
D KWCR, KWCD, KWDC, KWPC, KWGT, KWMM, KWEU, KWES, KWEI, KWCS, KWEC, KWPD,
Z KWMODL, KWINPT, KWOUTP, KWDMY(1), LSTPAR

```

C

```

DIMENSION FLTLIT(50,2)
EQUIVALENCE( FLTLIT(1,1) , LITNUM(1,1) )

```

Common PARTAB contains the tables used during the parsing of the input commands. It also contains tables which are used extensively throughout the remainder of the program. This is the common which contains the table NCODES which contains the coded integer representations of key words, tasks names, symbols, and letters used in parsing the input language commands.

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTLIT	Array containing floating point literals
KBBAND	Integer value of the bit indicating a banded matrix
KBBITS	Dummy array for future use
KBCPLX	Integer value of the bit which indicates complex number
KBDPRE	Integer value of the bit which indicates double precision number
KBFFLD	Integer value of bit which indicates far field
KBFULL	Integer value of bit which indicates a full array
KBGEOM	Integer value of bit which indicates geometry data
KBLEFT	Integer value of bit which indicates left-justified alpha text
KBLOAD	Integer value of bit which indicates a load
KBLWRT	Integer value of bit which indicates lower triangular matrix
KBNFLD	Integer value of bit which indicates a near field
KBORDR	Integer value of bit which indicates order of matrix elements
KBPVIT	Integer value of bit which indicates a pivot matrix
KBREAL	Integer value of bit which indicates a real arithmetic data
KBSNGL	Integer value of bit which indicates a single item symbol
KBSOLN	Integer value of bit which indicates a solution
KBSRCE	Integer value of bit which indicates a source

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KBSYM	Integer value of bit which indicates a symmetric data set
KBSYMY	Integer value of bit which indicates a symmetric data set about the y axis
KBTEXT	Integer value of bit which indicates a text data set
KBUPRT	Integer value of bit which indicates upper triangular matrix
KBZIMP	Integer value of bit which indicates an interaction matrix
KOLAST	The column of table NDATBL which contains the last address of the data set
KOLBIT	Column of NDATBL which contains the bit set information
KOLCNT	The integer number specifying the column of the loop table which contains the number of times the loop is still to be executed (dynamic counter).
KOLCOD	The number of the column in the literal table which contains the code information
KOLCOL	The number of the column in NDATBL which contains the number of columns of the data set
KOLFST	Column of NDATBL which contains the location of the first word of the data set
KOLLBL	The column of the loop table which contains the label the loop is to terminate on
KOLLNK	The column of the data table which links this data set to previous data sets
KOLLOC	Column in NDATBL containing the logical unit number of the file on which this symbol resides. Logical unit #0 implies core storage
KOLNAM	Column of NDATBL which contains the name of the data set

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KOLROW	Column of NDATBL which contains the number of rows in the data set
KOLTIM	Column of the loop table containing the number of times the loop is to be executed
KOLTSK	Column of the loop table containing the number of the task entry which references this loop
KOLVAL	Column of the literal table which contains the literal value
KWABS	Keyword for the absolute value function
KWARG	Array containing the number of arguments for each keyword
KWAXIS	Keyword for axis parameters
KWBAND	Pointer to the BAND keyword in the NCODES table
KWBCRE	Keyword pointer for BCRE
KWBSCB	Keyword for back substitution (BACSUB)
KWBNDW	Keyword for bandwidth (BNDW)
KWC	Pointer for the C keyword
KWCD	Pointer to NCODES for CD keyword
KWCDP	Pointer for the CDP keyword
KWCHKP	Keyword pointer for CHPNT
KWCLPS	Pointer to the COLAPS keyword
KWCONJG	Pointer to the CONJG keyword
KWCONVG	Pointer to the CONVRG keyword
KWCOND	Pointer to the COND keyword
KWCPNC	Pointer to the CPINC keyword
KWCPNM	Pointer to the CPNUM keyword
KWCR	Pointer to NCODES for CR keyword

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWCS	Pointer to NCODES for CS keyword
KNCW	Keyword pointer for CW
KWCY	Pointer to NCODES for CY keyword
KWC1	Pointer to the C1 keyword
KWC2	Pointer to the C2 keyword
KWD	Pointer to the D keyword
KWDEBUG	Keyword pointer for DEBUG
KWDC	Pointer to NCODES for DC keyword
KWDM	Keyword pointer for DM
KWDP	Keyword pointer for DP
KWDR	Keyword pointer for DR
KWDT	Keyword pointer for DT
KWDUMY	Dummy array for future keyword table expansion
KWDW	Keyword pointer for DW
KWDX	Keyword pointer for DX
KWDY	Keyword pointer for DY
KWDZ	Keyword pointer for DZ
KWEC	Pointer to NCODES for EC keyword
KWECC	Pointer to the ECC keyword
KWED	Pointer to NCODES for ED keyword
KMEDRV	Pointer to the EDRV keyword
KWEI	Pointer to NCODES for EI keyword
KWEND	Keyword pointer for END
KMEPSR	Pointer to the EPSR keyword

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWER	Pointer to NCODES for ER keyword
KWES	Pointer to NCODES for ES keyword
KWESRC	Keyword pointer for ESRC
KWEU	Pointer to NCODES FOR EU keyword
KWEXPN	Keyword pointer for EXPAND
KWFFLD	Keyword pointer for FARFLD
KWFLID	Keyword pointer for file ID
KWFMTF	Array containing pointers to the task format table
KWFRQ	Keyword pointer for FRQ
KWG DAT	Unused
KWGEOM	Unused
KWGMDT	Keyword pointer for GMDATA
KWGTD	Pointer to NCODES for GTD keyword
KWICOD	Keyword pointer for ICODE
KWILP	Keyword pointer for ILP
KWINPT	Pointer to NCODES for INPUT keyword
KWINV	Keyword pointer for INV
KWIPE	Keyword pointer for WIPE
KWIRE	Keyword pointer for IRE
KWIS	Keyword pointer for IS
KWL	Keyword pointer for L
KWLABL	Keyword pointer for LABEL
KWLBW	Keyword pointer for LBW
KWLG LG	Keyword pointer for LOGLOG

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWLGLN	Keyword pointer for LOGLIN
KWLGPO	Keyword pointer for LOGPLR
KWLMT	Maximum number of keywords possible plus one
KWLNLG	Keyword pointer for LINLOG
KWLNLN	Keyword pointer for LINLIN
KWLNPO	Keyword pointer for LINPLR
KWLOAD	Keyword pointer for ZLOADS
KWLOOP	Keyword pointer for LOOP
KWLU	Keyword pointer for LU
KWLUD	Keyword pointer for LUD
KWMAG	Keyword pointer for MAG
KWMAX	Current number of keywords
KWMM	Pointer to NCODES for MM keyword
KWMODL	Pointer to NCODES for MODULE keyword
KWMRG	Keyword pointer for MERGE
KWEXIT	Keyword pointer for MAXITR
KWN	Keyword pointer for N
KWNAME	Array containing keyword pointers to the NCODES array
KWNFLD	Keyword pointer to NERFLD
KWNFIL	Keyword pointer for NUMFIL
KWNP	Keyword pointer for NP
KWNR	Keyword pointer for NR
KWOFF	Keyword pointer for OFF
KWON	Keyword pointer for ON

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWOUTP	Pointer to NCODES for OUTPUT keyword
KWPART	Keyword pointer for PARTN
KWPC	Pointer to NCODES for PC keyword
KWPD	Pointer to NCODES for PD keyword
KWPDR	Pointer to NCODES for PDR keyword
KWPHI	Keyword pointer for PHI
KWPIVT	Keyword pointer for PIVOT
KWPL	Pointer to NCODES for PL keyword
KWPLOT	Keyword pointer for PLOT
KWPLSE	Keyword pointer for PULSE
KWPLT	Keyword pointer for PLT
KWPR	Pointer to NCODES for PR keyword
KWPRE	Keyword pointer for PRE
KWPRGE	Keyword pointer for PURGE
KWPRLC	Keyword pointer for PRLC
KWPRNT	Keyword pointer for PRINT
KWPSN	Keyword pointer for PSN
KMPW	Not Used
KMP1	Keyword pointer for P1
KMP2	Keyword pointer for P2
KMR	Keyword pointer for R
KWRC	Pointer to NCODES for RC keyword
KWRD	Pointer to NCODES for RD keyword
KWRDP	Keyword pointer for RDP

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWRDUC	Keyword pointer for REDUCE
KWREAD	Keyword pointer for READ
KWREPL	Keyword pointer for REPLAC
KWRFLC	Keyword pointer for REFLCT
KWRITE	Keyword pointer for WRITE
KWRR	Pointer to NCODES for RR keyword
KWRSTR	Keyword pointer for RESTRT
KWR1	Keyword pointer for R1
KWR2	Keyword pointer for R2
KWSC	Keyword pointer for SC
KWSCDP	Keyword pointer for SCDP
KWSEGS	Keyword pointer for SEGS
KWSEQ	Keyword pointer for SEQ
KWSET	Keyword pointer for SET
KWSIZE	Keyword pointer for SIZE
KWSMDF	Keyword pointer for SYMDEF
KWSNCS	Keyword pointer for SINCOS
KWSOLV	Keyword pointer for SOLVE
KMSR	Keyword pointer for SR
KMSRDP	Keyword pointer for SRDP
KMSRLC	Keyword pointer for SRLC
KWSTAT	Keyword pointer for STATS
KWSTNT	Keyword pointer for SETINT
KMSW	Keyword pointer for SW
KMTAG	Keyword pointer for TAG

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWTAGS	Keyword pointer for TAGS
KWTDN	Keyword pointer for DM (direct manipulation)
KWTHET	Keyword pointer for THETA
KWTIME	Keyword pointer for TIME
KWTRAC	Keyword pointer for TRACE
KWTRAN	Keyword pointer for TRANSP
KWTYPE	Keyword pointer for TYPE
KWT1	Keyword pointer for T1
KWT2	Keyword pointer for T2
KWUBW	Keyword pointer for UBW
KWV	Keyword pointer for V
KWVALU	Keyword pointer for VALUE
KWVS	Keyword pointer for VS
KWVSRC	Keyword pointer for VSRC
KWUIPE	Not used
KWX	Keyword pointer for X
KWXPND	Keyword pointer for EXPAND
KWX1	Keyword pointer for X1
KWX2	Keyword pointer for X2
KWY1	Keyword pointer for Y1
KWY2	Keyword pointer for Y2
KWZ	Keyword pointer for Z
KWZCDS	Keyword pointer for ZCODES
KWZCOD	Not used

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
KWZGEN	Keyword pointer for ZGEN
KWZIMP	Keyword pointer for ZIMP
KWZLDS	Keyword pointer for ZLOADS
KWZMAT	Keyword pointer for ZMATRX
KWZ1	Keyword pointer for Z1
KWZ2	Keyword pointer for Z2
LITNMX	Maximum number of literal table entries
LITNUM	Equivalence to FLTLIT, used to store integer literals
LOOPMX	Maximum number of loop table entries
LSTPAR	Last cell of common PARTAB
MXMX	Maximum number of keywords that can be packed in one word
MXARGT	Maximum number of argument types plus one
MXMAT	Maximum number of argument types that can be packed into a word
MXSYMB	Maximum number of operators
NAMTSK	Task name pointers to NCODES table
NARGLM	Number of arguments to scan for
NARGMX	Maximum number of argument table entries
NARGN	Number of operators
NARGTB	Table containing the command language arguments and tasks
NARGTP	Array containing unpacked argument types
NCODES	Table containing the encoded keywords, task names, and all other symbols or symbolic names used in the program

PARTAB

<u>SYMBOL</u>	<u>DEFINITION</u>
NDATBL	Storage area for symbols and data sets
NDATMX	Maximum number of entries in NDATBL
NLOOPS	Table containing the loop information
NPARGL	Pointer to the PARSE argument list table
NPDATA	Pointer to the NDATBL array
NPLITN	Pointer to the LITNUM array
NPLOOP	Pointer to the NLOOPS array
NPTASK	Pointer to the TASK array
NTASKS	Number of currently implemented tasks
NTDM	Task number for the direct manipulation task
NTSFMT	Task format table
NTSKMX	Maximum number of tasks in TASK table
NTSKTB	Table containing task name pointers to NCODES table
NUMWIP	Integer value of the WIPOUT task command

COMDECK PATDAT

COMMON /PATDAT/ XPC(3), YPC(3), ZPC(3)

SYMBOL

DEFINITION

XPC

This defines the pattern cut coordinate system
x axis unit vector in (XYZ) RCS components. The
x axis unit vector is given as:

$$XPC = x * XPC(1) + y * XPC(2) + z * XPC(3)$$

YPC

This defines the pattern cut coordinate system
y axis unit vector in (XYZ) RCS components. The
y axis unit vector is given as:

$$YPC = x * YPC(1) + y * YPC(2) + z * YPC(3)$$

ZPC

This defines the pattern cut coordinate system
z axis unit vector in (XYZ) RCS components. The
z axis unit vector is given as:

$$ZPC = x * ZPC(1) + y * ZPC(2) + z * ZPC(3)$$

COMDECK PIS
COMMON /PIS/ PI, TPI, DPR, RPD

<u>SYMBOL</u>	<u>DEFINITION</u>
DPR	The conversion factor for converting angular measurements in radians to degrees ($=180/\text{PI}=57.2957795$)
PI	The constant PI (3.14159265)
RPD	The conversion factor for converting angular measurements in degrees to radians ($=\text{PI}/180=0.0174532925$)
TPI	A constant, two times PI (6.28318531)

COMDECK PLAIN
COMMON /PLAIN/ XX(14,6,3)

SYMBOL

DEFINITION

XX

Array of plate corner locations in meters

COMDECK PNTTBL

```
COMMON/ PNTTBL / MAXPTS,NPRPT,PTTBLE(100,4),NUMPTS,IPTS,NPTBUF,  
1 IPTBUF,NAMPTS,LSTPTB  
DIMENSION IPTTBL (100,4)  
EQUIVALENCE( IPTTBL(1,1),PTTBLE(1,1))
```

Common PNTTBL is used in the geometry processor and stores the locator points read in during the geometry portion of the program.

<u>SYMBOL</u>	<u>DEFINITION</u>
IPTBUF	Current point table buffer
IPTS	Integer point number
IPTTBL	Storage array for point information
LSTPTB	Last cell of common PNTTBL
MAXPTS	Maximum number of points that can be stored in core at one time
NAMPTS	Name of the symbol table containing the point data on peripheral files
NPRPT	The number of words per point
NPTBUF	The number of times the point table has been written to a peripheral device
NUMPTS	Total number of points that have been processed
PTTBLE	Equivalence to IPTTBL

COMDECK ROTRDT

COMMON /ROTRDT/ XCL(3), YCL(3), ZCL(3)

SYMBOL

DEFINITION

XCL

This defines the reference coordinate system
x axis unit vector in global coordinate system
components.

The RCS x axis unit vector is defined as:

$$X=X0*XCL(1)+Y0*XCL(2)+Z0*XCL(3)$$

YCL

This defines the reference coordinate system
y axis unit vector in global coordinate system
components.

The RCS y axis unit vector is defined as:

$$Y=X0*YCL(1)+Y0*YCL(2)+Z0*YCL(3)$$

ZCL

This defines the reference coordinate system
z axis unit vector in global coordinate system
components.

The RCS z axis unit vector is defined as:

$$Z=X0*ZCL(1)+Y0*ZCL(2)+Z0*ZCL(3)$$

NOTE: X0, Y0, Z0 are unit vectors of the global coordinate system axes

COMDECK SAME

COMMON /SAME/ LSRCFL, LFRQFL, LGDNFL
LOGICAL LSRCFL, LFRQFL, LGDNFL

<u>SYMBOL</u>	<u>DEFINITION</u>
LFRQFL	Logical variable flag to indicate if the frequency is the same (LFRQFL=TRUE) or is different (LFRQFL=FALSE) from the previous time GTD calculations were performed
LGDNFL	Logical variable flag to indicate if the geometry data set name is the same (LGDNFL=TRUE) or different (LGDNFL=FALSE) from the previous time GTD calculations were performed
LSRCFL	Logical variable flag to indicate if the source location or type is the same (LSRCFL=TRUE) or different (LSRCFL=FALSE) from the previous time GTD calculations were performed

COMDECK SCNPAR

```
COMMON /SCNPAR/ NCODE(256), NVAL(256), NCARD(81), LETR(26),  
A IDIG(10), JDIG(10), ISYMBL(11), NARG(10), NF(10), NARGT(10),  
B NLETR, NDIGIT, NARITH, NCOMMA, NPAREN, NBLANK, NPEROD,  
E NINT, NFRAC, MATCH, NOMTCH, NDTASK, IGNORE, NEOFLG,  
F MXCDG, NFINCD, NDEBUG, NRESTF, NRDCDF,  
G IPER, ICOMMA, IPLUS, IMINUS, ISTAR, ISLASH, IEQUAL,  
H ILEFT, IRIGHT, IBLANK, IDOLAR,  
I NVALMX, MXINCT, MXFPCT, MXDPCT, MXANCT, MXEXPD, MXEXFP,  
J NPRSER, IPSTSK, IPSARG, IPSDAT, IPSLIT, IPSLOO,  
K LSTDAT, LSTINT, LSTASK, LSTINP, INTVAL, LSTFNC,  
L NARGS, KBINTP, KCHKPT, KRSTRT, KINPUT, KOUTPT, KSYMDF,  
M NSCNER, NCOL, NCHAR, NCCLAS, NDIG, NTAB, NCARDS, LSTCOL,  
N NCOMCH, NCONCH, NCON, NCON1, NENDCD, MAXCDS, NCOM, NTASK,  
O NSCOL, NCCARD, LCHAR  
DIMENSION VAL(256)  
EQUIVALENCE (NVAL(1), VAL(1) )
```

Common SCNPAR is used in scanning and parsing the command language input.

<u>SYMBOL</u>	<u>DEFINITION</u>
IBLANK	Integer pointer to blank symbol in ISYMBL array
ICOMMA	Integer pointer to comma symbol in ISYMBL array
IDIG	Array containing the integers 0 through 9
IDOLAR	Pointer to the dollar symbol in the ISYMBL array
IEQUAL	Pointer to the equal symbol in the ISYMBL array
IGNORE	Flag indicating ignore blanks in the input field
ILEFT	Pointer to left parenthesis symbol in ISYMBL table
IMINUS	Pointer to the minus symbol in the ISYMBL table
INTVAL	Initial value of the parameters on an input card
IPER	Pointer to the radix or period symbol in the ISYMBL array.
IPLUS	Pointer to the plus symbol in the ISYMBL array
IPSARG	Pointer to the parse argument

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
IPSDAT	Pointer to the parse data
IPSLIT	Pointer to the parse literal table
IPSLOO	Pointer to the parse loop table
IPSTSK	Pointer to the parse task table
IRIGHT	Pointer to the right parenthesis in the ISYMBL array
ISLASH	Pointer to the slash symbol in the ISYMBL array
ISTAR	Pointer to the star symbol in the ISYMBL array
ISYMBL	Array containing the special symbols that are allowed in the code
JDIG	Array containing the hollerith integer 0 through 9
KBINTP	Integer number of BINTAP task
KCHKPT	Integer number of CHKPNT task
KINPUT	Integer number of INPUT task
KOUTPT	Integer number of OUTPUT task
KRSTRT	Integer number of RESTRT task
KSYMDF	Integer number of SYMDEF task
LCHAR	Current character being scanned on the control card
LETR	Array containing Hollerith alphabet letters
LSTASK	Flag indicating a list of task names to be parsed
LSTCOL	The last column of the command data card to be processed, default is 80
LSTDAT	Flag indicating that a list of existing data sets is to be parsed

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
LSTFNC	Keyword ordinal for last function entered
LSTINP	Request to parse a concentrated list of input integers
LSTINT	Processed list of input integers
MATCH	Requested symbol must match previous entry in NOATBL
MAXCDS	Maximum number of cards
MXANCT	The maximum number of characters for a variable
MXCDFG	The maximum number of cards read
MXDPCT	The maximum floating point significance for a double precision number
MXEXFP	The maximum floating point exponent for a given machine
MXEXPD	The maximum double precision exponent for a given machine
MXFPCT	The maximum floating point significance for single precision variables
MXINCT	The maximum integer character width for a given machine
NARG	Array containing the argument locations in NARGTB
NARGS	The number of arguments expected for a command
NARGT	Array containing the type of argument to be provided
NARITH	Pointer indicates that an arithmetic operation is expected
NBLANK	Code type for a blank field on the input card
NCARD	The command card array
NCARDS	Current statement number

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
NCCARD	Continuation card number
NCCLAS	Character class of the last character retrieved by subroutine GETCHR
NCHAR	Last character retrieved by subroutine GETCHR
NCODE	Table of codes to the parsing routines by the scanner
NCOL	Next column to be retrieved by subroutine GETCHR
NCOM	Column containing the comment character, default to column 1
NCONCH	The comment character, default to \$
NCOMMA	Integer code for a comma
NCON	Column containing the continuation character, default to 1
NCONCH	The continuation card character, default to *
NCON1	Column to resume scanning the command on a continuation card, default to 2
NDEBUG	Flag turned on when a DEBUG statement is being scanned
NDIG	The value of the digit if the character being read is a digit
NDIGIT	Integer specifying a digit character
NDTASK	Integer value identifying a task code
NENDCD	The end-of-card character
NEOFLG	End-of-file flag returned by READCD
NF	Array of argument-found flags for subroutine STRARG
NFINCD	The flag turned on when the END card was read

SCNPAR

<u>SYMBOL</u>	<u>DEFINITION</u>
NFRAC	Pointer to the fractional part of a floating point number
NINT	Pointer to an integer or the integer part of a floating point number
NLETR	Pointer to the LETR array
NOMTCH	Flag turned on when no-match is required for previous NDATBL entries
NPAREN	Flag to indicate that the current field is a parenthesis
NPEROD	Flag to indicate that the current field is a period
NPRSER	Flag turned on when error has occurred in the parse subroutines
NRDCDF	Flag to indicate a continuation card
NRESTF	Flag to indicate a restart
NSCNER	Flag turned on when a scan error has occurred
NSCOL	The card column at the beginning of field being scanned
NTAB	Index to the NCODE and NVAL arrays
NTASK	Current task name ordinal
NVAL	A table of associated values with respect to the NCODE array
NVALMX	The maximum number of entries in the NCODE or NVAL tables
VAL	Equivalence to the NVAL array for floating point values

COMDECK SDATA

DATA NUMSUB,LSAVE(1),LSAVE(2),LSAVE(3),LSAVE(4),LSAVE(5)/6*0/

Common deck SDATA is used for initializing internal variables used to save subroutine information

SYMBOL

DEFINITION

LSAVE

Array used to save subroutine information

NUMSUB

Subroutine number

COMDECK SEGMENT

```
COMMON/SEGMENT/SEGTBL(11,500),MAXSEG,NPRSEG,NUMSEG,ISEG,MAXBLK
1 ,SCALE, NAMSEG,MAXRAD,RAD(10),JCBIAS,JBIA1,JBIA2,NYRSYM,MLTJCT
2 ,NRAD,NDXBLK,UPDBLK,NWIRE,NPATCH,GAREA,PAREA,JBIA3
DIMENSION ISGTBL(11,500)
EQUIVALENCE (ISGTBL(1,1) ,SEGTBL(1,1))
LOGICAL UPDBLK
```

Common SEGMENT contains the wire segment information and is used in the geometry driver, the interaction matrix generator, and will also be used as a scratch area in the lower/upper decomposition driving routine.

<u>SYMBOL</u>	<u>DEFINITION</u>
GAREA	Total surface area of wire segments
ISEG	Pointer to the current segment number
ISGTBL	Array containing the segment information
JBIA1	Integer to bias connection data to end one of the segment
JBIA2	Integer to bias connection data for end two of a segment
JBIA3	Integer to indicate connection of a wire segment to a patch
JCBIAS	Integer to indicate multiple junction connection
MAXBLK	Total number of geometry data blocks
MAXRAD	Maximum number of radius entries
MAXSEG	Maximum number of segment entries that can be stored in core
MLTJCT	Flag to indicate a multiple junction has been found
NAMSEG	The name of the segment table when it is written out of core
NDXBLK	Index to the current geometry data block
NPATCH	Total number of patches
NPRSEG	Number of data entries per segment

SEGMNT

<u>SYMBOL</u>	<u>DEFINITION</u>
NRAD	Number of radius entries
NUMSEG	Number of segments which have been processed
NWIRE	Total number of wire segments
NYRSYM	Flag to indicate wire symmetry
PAREA	Total surface patch area
RAD	Array of radii values
SCALE	Scale factor to be used in processing geometry input
SEGTBL	Equivalence to table ISGTBL
UPDBLK	Flag set .TRUE. when the data in the current geometry block have been updated since the last time the block was stored on a file

COMDECK SORINF
COMMON /SORINF/ XS(3), VXS(3,3)

<u>SYMBOL</u>	<u>DEFINITION</u>
VXS	<p>A 3X3 matrix defining the source coordinate system axes unit vectors in reference coordinate system components:</p> $XP=x*VXS(1,1)+y*VXS(1,2)+z*VXS(1,3)$ $YP=x*VXS(2,1)+y*VXS(2,2)+z*VXS(2,3)$ $ZP=x*VXS(3,1)+y*VXS(3,2)+z*VXS(3,3)$
XS	<p>The location of the source in (XYZ) reference coordinate system components in wavelengths</p>

COMDECK SOURSF
COMMON /SOURSF/ FACTOR

<u>SYMBOL</u>	<u>DEFINITION</u>
FACTOR	<p>This is a coefficient of the source field used to obtain the correct field magnitude for sources mounted on plates or end caps (in order to compensate for image effects). Factor is given as follows:</p> <p>For Electric Sources:</p> <p>For source not mounted on plate or end cap, FACTOR=1.0</p> <p>For source mounted normal to plate or end cap, FACTOR=1.0</p> <p>For source mounted on plate or end cap but not normal to it. FACTOR=0.5</p> <p>For Magnetic Sources*:</p> <p>For source not mounted on plate or end cap, FACTOR=1.0</p> <p>For source mounted on plate or end cap and parallel to it, FACTOR=2.0</p> <p>For source mounted on plate or end cap, but not parallel to it, FACTOR= 1.0</p>

*Magnetic sources are not included in version 3 of GEMACS.

COMDECK SRC
COMMON /SRC/ SP1, SP2, IM

<u>SYMBOL</u>	<u>DEFINITION</u>
IM	The source type
SP1	The wire source radius in wavelengths; or the patch area in square wavelengths
SP2	The wire source length in wavelengths; or for patches it is zero

COMDECK SRFACC
COMMON /SRFACC/ LSRFC(2)
LOGICAL LSRFC

SYMBOL

DEFINITION

LSRFC

A logical variable indicating whether or not the source under consideration is mounted on cylinder end cap MC
LSRFC(MC)=T indicates source mounted on end cap MC
LSRFC(MC)=F indicates source not mounted on end cap MC

COMDECK SURFAC
COMMON /SURFAC/ LSURF(14)
LOGICAL LSURF

SYMBOL

DEFINITION

LSURF

A logical variable indicating whether or not the source under consideration is mounted on plate MP

LSURF(MP)=T indicates source mounted on plate MP

LSURF(MP)=F indicates source not mounted on plate MP

```
COMDECK SYMSTR  
COMMON/SYMSTR/FLTSYM(100),NXTSYM,MAXSTR  
DIMENSION INTSYM(100)  
EQUIVALENCE (INTSYM(1),FLTSYM(1))
```

Common SYMSTR is used to store single variables.

<u>SYMBOL</u>	<u>DEFINITION</u>
FLTSYM	Array containing all single variables
INTSYM	Integer array equivalenced to FLTSYM
MAXSTR	Maximum number of entries that can be entered in FLTSYM
NXTSYM	Next available entry in the FLTSYM array

COMDECK SYSFIL

```
COMMON/ SYSFIL /CHKPNT,IOCKPT,RSTART,CPFRWD,TIMTGO,NUMCHK,INCCHK,  
B IOSYMB,IOSCR1,IOSCR2,  
C IOTASK,CHKWRT,  
D MODCHK,RSTRTA,COMPLT,LSTTPF,  
Z LSTSYS(20)  
DIMENSION SYSLST(20)  
LOGICAL RSTRTA,COMPLT  
EQUIVALENCE (SYSLST(1),LSTSYS(1))  
LOGICAL CHKPNT,RSTART,CHKWRT,CPFRWD
```

Common SYSFIL contains information for the interface between the GEMACS program and the host computer system. In addition, it contains the checkpoint and binary output information.

<u>SYMBOL</u>	<u>DEFINITION</u>
CHKPNT	Logical variable equals true when checkpoint tape is to be written
CHKWRT	Logical variable equals true when checkpoint is being written
COMPLT	Run complete flag
CPFRWD	Logical variable equals true when checkpoint tape is to be rewound
INCCHK	Checkpoint interval increment in CP minutes
IOCKPT	Logical unit for checkpoint output
IOSCR1	Logical unit for scratch file #1
IOSCR2	Logical unit for scratch file #2
IOSYMB	Logical unit for storing symbols
IOTASK	Logical unit on which command language input is found
LSTSYS	Last cell of SYSFIL common
LSTTPF	Pointer to last task executed
MODCHK	Logical unit for end-of-module checkpoint file
NUMCHK	Number of checkpoints written
RSTART	Logical variable equals true when checkpoint restart has been accomplished

SYSFIL

<u>SYMBOL</u>	<u>DEFINITION</u>
RSTRTA	Alternate restart flag
SYSLST	Floating point array equivalenced to LSTSYS
TIMTGO	Total run time requested on TIME command

COMDECK TEST
COMMON /TEST/ LDEBUG, LTEST
LOGICAL LDEBUG, LTEST

<u>SYMBOL</u>	<u>DEFINITION</u>
LDEBUG	This logical variable is set true if debug data are to be printed to file LUPRNT
LTEST	This logical variable is set true if test data are to be printed on line printer (not used in version 3 of GEMACS)

COMDECK THPHUV

COMMON /THPHUV/ DT(3), DP(2)

SYMBOL

DEFINITION

DP

The phi unit vector for observation direction D
in reference coordinate system components:

$$DP = \hat{x} * DP(1) + \hat{y} * DP(2)$$

DT

The theta unit vector for observation direc-
tion D in reference coordinate system compo-
nents:

$$DT = \hat{x} * DT(1) + \hat{y} * DT(2) + \hat{z} * DT(3)$$

COMDECK TEMP01

COMMON/TEMP01/TEMP(5500),NTEMPS,LSTTMP

DIMENSION ITEMP(5500)

EQUIVALENCE (ITEMP(1), TEMP(1))

SYMBOL

DEFINITION

ITEMP

Array of integer variables equivalent to TEMP

LSTTMP

Last cell of the TEMP01 array

NTEMPS

Number of cells of the TEMP array

TEMP

Floating point equivalence to ITEMP

COMDECK TMI
COMMON/TMI/ZPK,RHK,RKB2,IJ,IPATCH

<u>SYMBOL</u>	<u>DEFINITION</u>
IJ	Flag for numerical integration; IJ=0 indicates self-interaction
IPATCH	Flag indicating a patch observation point
RHK	$k\rho$, where ρ is the distance between the observation point and the axis of the source wire segment
RKB2	$(k\rho')^2$, where ρ' is the distance between the observation point and the side of the source wire segment (see subroutine TNEFLD, figure 2)
ZPK	Wave number times the polar z coordinate of the observation point

COMDECK TOPD
COMMON /TOPD/ TOP
COMPLEX TOP

SYMBOL

DEFINITION

TOP

The complex constant, $-\text{CEXP}(-J*\text{PI}/4.)$

COMDECK XSTR1
COMMON /XSTR1/ XSS(3),TRO(3),VXSS(3,3)

<u>SYMBOL</u>	<u>DEFINITION</u>
TRO	The location of the cylinder center in meters
VXSS	The source axes unit vectors in the global coordinate system
XSS	The source location in meters in the global coordinate system



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